

[MS-BDCWPS]:

Business Data Connectivity Web Service Protocol

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
- **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](#) or the [Microsoft Community Promise](#). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **License Programs.** To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](#).
- **Trademarks.** The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit www.microsoft.com/trademarks.
- **Fictitious Names.** The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

Reservation of Rights. All other rights are reserved, and this notice does not grant any rights other than as specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications documentation does not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments, you are free to take advantage of them. Certain Open Specifications documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

Support. For questions and support, please contact dochelp@microsoft.com.

Revision Summary

Date	Revision History	Revision Class	Comments
7/13/2009	0.1	Major	Initial Availability
8/28/2009	0.2	Editorial	Revised and edited the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
2/19/2010	1.0	Major	Updated and revised the technical content
3/31/2010	1.01	Editorial	Revised and edited the technical content
4/30/2010	1.02	Editorial	Revised and edited the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
6/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
7/23/2010	1.05	Major	Significantly changed the technical content.
9/27/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.06	Major	Significantly changed the technical content.
12/17/2010	1.06	None	No changes to the meaning, language, or formatting of the technical content.
3/18/2011	1.06	None	No changes to the meaning, language, or formatting of the technical content.
6/10/2011	1.06	None	No changes to the meaning, language, or formatting of the technical content.
1/20/2012	2.0	Major	Significantly changed the technical content.
4/11/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
9/12/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
10/8/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
2/11/2013	2.0	None	No changes to the meaning, language, or formatting of the technical content.
7/30/2013	2.1	Minor	Clarified the meaning of the technical content.
11/18/2013	2.1	None	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	2.1	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	2.2	Minor	Clarified the meaning of the technical content.
7/31/2014	2.3	Minor	Clarified the meaning of the technical content.

Date	Revision History	Revision Class	Comments
10/30/2014	2.3	None	No changes to the meaning, language, or formatting of the technical content.
2/26/2016	3.0	Major	Significantly changed the technical content.
7/15/2016	3.0	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2016	3.1	Minor	Clarified the meaning of the technical content.
11/14/2016	3.2	Minor	Clarified the meaning of the technical content.
6/20/2017	3.3	Minor	Clarified the meaning of the technical content.
9/19/2017	4.0	Major	Significantly changed the technical content.
12/12/2017	4.0	None	No changes to the meaning, language, or formatting of the technical content.
7/24/2018	5.0	Major	Significantly changed the technical content.
10/1/2018	6.0	Major	Significantly changed the technical content.
3/19/2019	6.0	None	No changes to the meaning, language, or formatting of the technical content.

Table of Contents

1	Introduction	37
1.1	Glossary	37
1.2	References	44
1.2.1	Normative References	44
1.2.2	Informative References	45
1.3	Protocol Overview (Synopsis)	45
1.4	Relationship to Other Protocols	45
1.5	Prerequisites/Preconditions	46
1.6	Applicability Statement	46
1.7	Versioning and Capability Negotiation	46
1.8	Vendor-Extensible Fields	46
1.9	Standards Assignments.....	47
2	Messages.....	48
2.1	Transport	48
2.2	Common Message Syntax	48
2.2.1	Namespaces	48
2.2.2	Messages.....	49
2.2.3	Elements	49
2.2.4	Complex Types.....	49
2.2.4.1	AccessControlEntryStruct	54
2.2.4.2	AccessDeniedException	54
2.2.4.3	AccessDeniedExceptionState	54
2.2.4.4	ActionParameterStruct.....	55
2.2.4.5	ActionStruct	55
2.2.4.6	AdministrationMetadataCatalogStruct	56
2.2.4.7	ArgumentException	56
2.2.4.8	ArgumentNullException.....	57
2.2.4.9	ArgumentOutOfRangeException	57
2.2.4.10	ArrayOfAccessControlEntryStruct	57
2.2.4.11	ArrayOfAssociationStruct	57
2.2.4.12	ArrayOfEntityStruct	58
2.2.4.13	ArrayOfLobSystemStruct.....	58
2.2.4.14	ArrayOfLocalizedNameStruct	58
2.2.4.15	ArrayOfMethodInstanceStruct.....	59
2.2.4.16	ArrayOfModelStruct	59
2.2.4.17	ArrayOfPropertyStruct	59
2.2.4.18	ArrayOfstring.....	59
2.2.4.19	ArrayOfTypeDescriptorStruct	60
2.2.4.20	ArrayOfunsignedInt	60
2.2.4.21	AssociationGroupStruct.....	60
2.2.4.22	AssociationReferenceStruct	61
2.2.4.23	AssociationStruct	62
2.2.4.24	BdcException.....	63
2.2.4.25	BdcExceptionState	63
2.2.4.26	ComplexValueStruct.....	64
2.2.4.27	ConcurrentModificationExceptionState	64
2.2.4.28	DataClassStruct	65
2.2.4.29	DefaultValueStruct	65
2.2.4.30	DuplicateMetadataObjectExceptionState	66
2.2.4.31	EntityStruct.....	66
2.2.4.32	ExceededMetadataObjectLimitExceptionState	67
2.2.4.33	Exception.....	67
2.2.4.34	FilterDescriptorStruct	67
2.2.4.35	IdentifierStruct	68

2.2.4.36	InvalidMetadataObjectExceptionState	69
2.2.4.37	InvalidMetadataPropertyExceptionState	69
2.2.4.38	InvalidOperationException	70
2.2.4.39	LobSystemInstanceStruct	70
2.2.4.40	LobSystemStruct	71
2.2.4.41	LocalizedNameStruct	71
2.2.4.42	MetadataException	71
2.2.4.43	MetadataObjectNotFoundExceptionState	72
2.2.4.44	MetadataObjectStruct	72
2.2.4.45	MethodInstanceStruct	73
2.2.4.46	MethodStruct	74
2.2.4.47	ModelStruct	74
2.2.4.48	PackageFormatExceptionState	75
2.2.4.49	ParameterStruct	75
2.2.4.50	PropertyStruct	76
2.2.4.51	ProxyGenerationResult	76
2.2.4.52	SafetyNetStruct	77
2.2.4.53	TypeDescriptorStruct	78
2.2.4.54	Version	81
2.2.5	Simple Types	81
2.2.5.1	CacheUsage	82
2.2.5.2	char	83
2.2.5.3	DirectionType	83
2.2.5.4	FilterType	83
2.2.5.5	MethodInstanceType	85
2.2.5.6	PackageContents	87
2.2.5.7	SystemType	87
2.2.5.8	ThrottleScope	88
2.2.5.9	ThrottleType	89
2.2.5.10	TypeDescriptorFlags	90
2.2.6	Attributes	91
2.2.7	Groups	91
2.2.8	Attribute Groups	91
3	Protocol Details	92
3.1	Server Details	92
3.1.1	Abstract Data Model	92
3.1.2	Timers	98
3.1.3	Initialization	98
3.1.4	Message Processing Events and Sequencing Rules	98
3.1.4.1	Activate	115
3.1.4.1.1	Messages	117
3.1.4.1.1.1	BusinessDataCatalogSharedService_Activate_InputMessage	117
3.1.4.1.1.2	BusinessDataCatalogSharedService_Activate_OutputMessage	117
3.1.4.1.2	Elements	117
3.1.4.1.2.1	Activate	117
3.1.4.1.2.2	ActivateResponse	118
3.1.4.1.3	Complex Types	118
3.1.4.1.4	Simple Types	118
3.1.4.1.5	Attributes	118
3.1.4.1.6	Groups	118
3.1.4.1.7	Attribute Groups	118
3.1.4.2	AddAssociationReferenceToAssociationGroup	118
3.1.4.2.1	Messages	120
3.1.4.2.1.1	BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage	120

3.1.4.2.1.2	BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage	121
3.1.4.2.2	Elements	121
3.1.4.2.2.1	AddAssociationReferenceToAssociationGroup	121
3.1.4.2.2.2	AddAssociationReferenceToAssociationGroupResponse	121
3.1.4.2.3	Complex Types	122
3.1.4.2.4	Simple Types	122
3.1.4.2.5	Attributes	122
3.1.4.2.6	Groups	122
3.1.4.2.7	Attribute Groups	122
3.1.4.3	AddEntityToModel	122
3.1.4.3.1	Messages	123
3.1.4.3.1.1	BusinessDataCatalogSharedService_AddEntityToModel_InputMessage	124
3.1.4.3.1.2	BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage	124
3.1.4.3.2	Elements	124
3.1.4.3.2.1	AddEntityToModel	124
3.1.4.3.2.2	AddEntityToModelResponse	125
3.1.4.3.3	Complex Types	125
3.1.4.3.4	Simple Types	125
3.1.4.3.5	Attributes	125
3.1.4.3.6	Groups	125
3.1.4.3.7	Attribute Groups	125
3.1.4.4	AddThrottlingRule	125
3.1.4.4.1	Messages	126
3.1.4.4.1.1	BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage	126
3.1.4.4.1.2	BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage	127
3.1.4.4.2	Elements	127
3.1.4.4.2.1	AddThrottlingRule	127
3.1.4.4.2.2	AddThrottlingRuleResponse	127
3.1.4.4.3	Complex Types	127
3.1.4.4.4	Simple Types	127
3.1.4.4.5	Attributes	127
3.1.4.4.6	Groups	128
3.1.4.4.7	Attribute Groups	128
3.1.4.5	BulkSwitchActiveOrValidate	128
3.1.4.5.1	Messages	129
3.1.4.5.1.1	BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage	130
3.1.4.5.1.2	BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage	130
3.1.4.5.2	Elements	130
3.1.4.5.2.1	BulkSwitchActiveOrValidate	130
3.1.4.5.2.2	BulkSwitchActiveOrValidateResponse	131
3.1.4.5.3	Complex Types	131
3.1.4.5.3.1	ArrayOfActivationErrorRecordStruct	131
3.1.4.5.3.2	ActivationErrorRecordStruct	132
3.1.4.5.4	Simple Types	139
3.1.4.5.5	Attributes	139
3.1.4.5.6	Groups	139
3.1.4.5.7	Attribute Groups	139
3.1.4.6	CheckPathInMethodInstances	139

3.1.4.6.1	Messages	140
3.1.4.6.1.1	BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage	140
3.1.4.6.1.2	BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage	141
3.1.4.6.2	Elements	141
3.1.4.6.2.1	CheckPathInMethodInstances	141
3.1.4.6.2.2	CheckPathInMethodInstancesResponse	141
3.1.4.6.3	Complex Types	142
3.1.4.6.4	Simple Types	142
3.1.4.6.5	Attributes	142
3.1.4.6.6	Groups	142
3.1.4.6.7	Attribute Groups	142
3.1.4.7	ClearLocalizedNames	142
3.1.4.7.1	Messages	144
3.1.4.7.1.1	BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage	144
3.1.4.7.1.2	BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage	144
3.1.4.7.2	Elements	144
3.1.4.7.2.1	ClearLocalizedNames	144
3.1.4.7.2.2	ClearLocalizedNamesResponse	145
3.1.4.7.3	Complex Types	145
3.1.4.7.4	Simple Types	145
3.1.4.7.5	Attributes	145
3.1.4.7.6	Groups	145
3.1.4.7.7	Attribute Groups	145
3.1.4.8	ClearProperties	145
3.1.4.8.1	Messages	147
3.1.4.8.1.1	BusinessDataCatalogSharedService_ClearProperties_InputMessage	147
3.1.4.8.1.2	BusinessDataCatalogSharedService_ClearProperties_OutputMessage	147
3.1.4.8.2	Elements	147
3.1.4.8.2.1	ClearProperties	147
3.1.4.8.2.2	ClearPropertiesResponse	148
3.1.4.8.3	Complex Types	148
3.1.4.8.4	Simple Types	148
3.1.4.8.5	Attributes	148
3.1.4.8.6	Groups	148
3.1.4.8.7	Attribute Groups	148
3.1.4.9	CopyAclAcrossChildren	148
3.1.4.9.1	Messages	150
3.1.4.9.1.1	BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage	150
3.1.4.9.1.2	BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage	150
3.1.4.9.2	Elements	150
3.1.4.9.2.1	CopyAclAcrossChildren	151
3.1.4.9.2.2	CopyAclAcrossChildrenResponse	151
3.1.4.9.3	Complex Types	151
3.1.4.9.4	Simple Types	151
3.1.4.9.5	Attributes	151
3.1.4.9.6	Groups	151

3.1.4.9.7	Attribute Groups.....	151
3.1.4.10	CopyAclAcrossChildrenForSetting	152
3.1.4.10.1	Messages	153
3.1.4.10.1.1	BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage.....	153
3.1.4.10.1.2	BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage.....	154
3.1.4.10.2	Elements.....	154
3.1.4.10.2.1	CopyAclAcrossChildrenForSetting	154
3.1.4.10.2.2	CopyAclAcrossChildrenForSettingResponse.....	154
3.1.4.10.3	Complex Types	155
3.1.4.10.4	Simple Types	155
3.1.4.10.5	Attributes	155
3.1.4.10.6	Groups.....	155
3.1.4.10.7	Attribute Groups.....	155
3.1.4.11	CopyAclToSetting	155
3.1.4.11.1	Messages	156
3.1.4.11.1.1	BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage	157
3.1.4.11.1.2	BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage	157
3.1.4.11.2	Elements.....	157
3.1.4.11.2.1	CopyAclToSetting.....	157
3.1.4.11.2.2	CopyAclToSettingResponse	158
3.1.4.11.3	Complex Types	158
3.1.4.11.4	Simple Types	158
3.1.4.11.5	Attributes	158
3.1.4.11.6	Groups.....	158
3.1.4.11.7	Attribute Groups.....	158
3.1.4.12	Deactivate	158
3.1.4.12.1	Messages	161
3.1.4.12.1.1	BusinessDataCatalogSharedService_Deactivate_InputMessage	161
3.1.4.12.1.2	BusinessDataCatalogSharedService_Deactivate_OutputMessage	161
3.1.4.12.2	Elements.....	161
3.1.4.12.2.1	Deactivate	161
3.1.4.12.2.2	DeactivateResponse	162
3.1.4.12.3	Complex Types	162
3.1.4.12.4	Simple Types	162
3.1.4.12.5	Attributes	162
3.1.4.12.6	Groups.....	162
3.1.4.12.7	Attribute Groups.....	162
3.1.4.13	Delete	162
3.1.4.13.1	Messages	165
3.1.4.13.1.1	BusinessDataCatalogSharedService_Delete_InputMessage.....	165
3.1.4.13.1.2	BusinessDataCatalogSharedService_Delete_OutputMessage.....	165
3.1.4.13.2	Elements.....	165
3.1.4.13.2.1	Delete	166
3.1.4.13.2.2	DeleteResponse	166
3.1.4.13.3	Complex Types	166
3.1.4.13.4	Simple Types	166
3.1.4.13.5	Attributes	166
3.1.4.13.6	Groups.....	166
3.1.4.13.7	Attribute Groups.....	166
3.1.4.14	DeleteAssociationReferenceFromAssociationGroup	166
3.1.4.14.1	Messages	169

3.1.4.14.1.1	BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage	169
3.1.4.14.1.2	BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage	169
3.1.4.14.2	Elements	169
3.1.4.14.2.1	DeleteAssociationReferenceFromAssociationGroup	170
3.1.4.14.2.2	DeleteAssociationReferenceFromAssociationGroupResponse	170
3.1.4.14.3	Complex Types	170
3.1.4.14.4	Simple Types	170
3.1.4.14.5	Attributes	170
3.1.4.14.6	Groups.....	171
3.1.4.14.7	Attribute Groups.....	171
3.1.4.15	DeleteDefaultValueForTypeDescriptor	171
3.1.4.15.1	Messages	172
3.1.4.15.1.1	BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage	173
3.1.4.15.1.2	BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage	173
3.1.4.15.2	Elements	173
3.1.4.15.2.1	DeleteDefaultValueForTypeDescriptor	173
3.1.4.15.2.2	DeleteDefaultValueForTypeDescriptorResponse.....	174
3.1.4.15.3	Complex Types	174
3.1.4.15.4	Simple Types	174
3.1.4.15.5	Attributes	174
3.1.4.15.6	Groups.....	174
3.1.4.15.7	Attribute Groups.....	174
3.1.4.16	DeleteNoCascade	174
3.1.4.16.1	Messages	176
3.1.4.16.1.1	BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage	177
3.1.4.16.1.2	BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage	177
3.1.4.16.2	Elements.....	177
3.1.4.16.2.1	DeleteNoCascade	177
3.1.4.16.2.2	DeleteNoCascadeResponse.....	178
3.1.4.16.3	Complex Types	178
3.1.4.16.4	Simple Types	178
3.1.4.16.5	Attributes	178
3.1.4.16.6	Groups.....	178
3.1.4.16.7	Attribute Groups.....	178
3.1.4.17	DeleteProxyAssemblyForLobSystem	178
3.1.4.17.1	Messages	179
3.1.4.17.1.1	BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage	180
3.1.4.17.1.2	BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage	180
3.1.4.17.2	Elements.....	180
3.1.4.17.2.1	DeleteProxyAssemblyForLobSystem	180
3.1.4.17.2.2	DeleteProxyAssemblyForLobSystemResponse	181
3.1.4.17.3	Complex Types	181
3.1.4.17.4	Simple Types	181
3.1.4.17.5	Attributes	181

3.1.4.17.6	Groups.....	181
3.1.4.17.7	Attribute Groups.....	181
3.1.4.18	EntityCreate	181
3.1.4.18.1	Messages	183
3.1.4.18.1.1	BusinessDataCatalogSharedService_EntityCreate_InputMessage	183
3.1.4.18.1.2	BusinessDataCatalogSharedService_EntityCreate_OutputMessage ..	183
3.1.4.18.2	Elements	184
3.1.4.18.2.1	EntityCreate	184
3.1.4.18.2.2	EntityCreateResponse.....	184
3.1.4.18.3	Complex Types	185
3.1.4.18.4	Simple Types	185
3.1.4.18.5	Attributes	185
3.1.4.18.6	Groups.....	185
3.1.4.18.7	Attribute Groups.....	185
3.1.4.19	ExportPackage.....	185
3.1.4.19.1	Messages	187
3.1.4.19.1.1	BusinessDataCatalogSharedService_ExportPackage_InputMessage .	187
3.1.4.19.1.2	BusinessDataCatalogSharedService_ExportPackage_OutputMessage	187
3.1.4.19.2	Elements	187
3.1.4.19.2.1	ExportPackage.....	187
3.1.4.19.2.2	ExportPackageResponse	188
3.1.4.19.3	Complex Types	188
3.1.4.19.4	Simple Types	188
3.1.4.19.5	Attributes	189
3.1.4.19.6	Groups.....	189
3.1.4.19.7	Attribute Groups.....	189
3.1.4.20	GenerateProxyAssemblyForLobSystem	189
3.1.4.20.1	Messages	190
3.1.4.20.1.1	BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage	190
3.1.4.20.1.2	BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage	191
3.1.4.20.2	Elements	191
3.1.4.20.2.1	GenerateProxyAssemblyForLobSystem	191
3.1.4.20.2.2	GenerateProxyAssemblyForLobSystemResponse	191
3.1.4.20.3	Complex Types	192
3.1.4.20.4	Simple Types	192
3.1.4.20.5	Attributes	192
3.1.4.20.6	Groups.....	192
3.1.4.20.7	Attribute Groups.....	192
3.1.4.21	GetAccessControlEntries	192
3.1.4.21.1	Messages	193
3.1.4.21.1.1	BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage.....	194
3.1.4.21.1.2	BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage	194
3.1.4.21.2	Elements	194
3.1.4.21.2.1	GetAccessControlEntries	194
3.1.4.21.2.2	GetAccessControlEntriesResponse	195
3.1.4.21.3	Complex Types	195
3.1.4.21.4	Simple Types	195
3.1.4.21.5	Attributes	195
3.1.4.21.6	Groups.....	195
3.1.4.21.7	Attribute Groups.....	195

3.1.4.22	GetActionById	195
3.1.4.22.1	Messages	197
3.1.4.22.1.1	BusinessDataCatalogSharedService_GetActionById_InputMessage..	197
3.1.4.22.1.2	BusinessDataCatalogSharedService_GetActionById_OutputMessage	197
3.1.4.22.2	Elements	197
3.1.4.22.2.1	GetActionById	197
3.1.4.22.2.2	GetActionByIdResponse	198
3.1.4.22.3	Complex Types	198
3.1.4.22.4	Simple Types	198
3.1.4.22.5	Attributes	198
3.1.4.22.6	Groups	198
3.1.4.22.7	Attribute Groups.....	198
3.1.4.23	GetActionParameterById	198
3.1.4.23.1	Messages	200
3.1.4.23.1.1	BusinessDataCatalogSharedService_GetActionParameterById_InputMes sage.....	200
3.1.4.23.1.2	BusinessDataCatalogSharedService_GetActionParameterById_OutputMe ssage	200
3.1.4.23.2	Elements	200
3.1.4.23.2.1	GetActionParameterById	200
3.1.4.23.2.2	GetActionParameterByIdResponse	201
3.1.4.23.3	Complex Types	201
3.1.4.23.4	Simple Types	201
3.1.4.23.5	Attributes	201
3.1.4.23.6	Groups	201
3.1.4.23.7	Attribute Groups.....	201
3.1.4.24	GetActionParametersForAction.....	202
3.1.4.24.1	Messages	203
3.1.4.24.1.1	BusinessDataCatalogSharedService_GetActionParametersForAction_Inp utMessage	203
3.1.4.24.1.2	BusinessDataCatalogSharedService_GetActionParametersForAction_Out putMessage.....	203
3.1.4.24.2	Elements	203
3.1.4.24.2.1	GetActionParametersForAction.....	204
3.1.4.24.2.2	GetActionParametersForActionResponse	204
3.1.4.24.3	Complex Types	204
3.1.4.24.3.1	ArrayOfActionParameterStruct	205
3.1.4.24.4	Simple Types	205
3.1.4.24.5	Attributes	205
3.1.4.24.6	Groups	205
3.1.4.24.7	Attribute Groups.....	205
3.1.4.25	GetActionsForEntity	205
3.1.4.25.1	Messages	206
3.1.4.25.1.1	BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage	207
3.1.4.25.1.2	BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessag e	207
3.1.4.25.2	Elements	207
3.1.4.25.2.1	GetActionsForEntity.....	207
3.1.4.25.2.2	GetActionsForEntityResponse	207
3.1.4.25.3	Complex Types	208
3.1.4.25.3.1	ArrayOfActionStruct	208
3.1.4.25.4	Simple Types	208

3.1.4.25.5	Attributes	208
3.1.4.25.6	Groups.....	208
3.1.4.25.7	Attribute Groups.....	208
3.1.4.26	GetAllLocalizedNames.....	208
3.1.4.26.1	Messages	210
3.1.4.26.1.1	BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage.....	210
3.1.4.26.1.2	BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage	210
3.1.4.26.2	Elements	210
3.1.4.26.2.1	GetAllLocalizedNames.....	211
3.1.4.26.2.2	GetAllLocalizedNamesResponse	211
3.1.4.26.3	Complex Types	211
3.1.4.26.4	Simple Types	212
3.1.4.26.5	Attributes	212
3.1.4.26.6	Groups.....	212
3.1.4.26.7	Attribute Groups.....	212
3.1.4.27	GetAllLocalizedNamesForMetadataObjectStruct.....	212
3.1.4.27.1	Messages	213
3.1.4.27.1.1	BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage	213
3.1.4.27.1.2	BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage	214
3.1.4.27.2	Elements	214
3.1.4.27.2.1	GetAllLocalizedNamesForMetadataObjectStruct.....	214
3.1.4.27.2.2	GetAllLocalizedNamesForMetadataObjectStructResponse	215
3.1.4.27.3	Complex Types	215
3.1.4.27.4	Simple Types	215
3.1.4.27.5	Attributes	215
3.1.4.27.6	Groups.....	215
3.1.4.27.7	Attribute Groups.....	215
3.1.4.28	GetAllPartitionIds	215
3.1.4.28.1	Messages	216
3.1.4.28.1.1	BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage	216
3.1.4.28.1.2	BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage	217
3.1.4.28.2	Elements	217
3.1.4.28.2.1	GetAllPartitionIds.....	217
3.1.4.28.2.2	GetAllPartitionIdsResponse.....	217
3.1.4.28.3	Complex Types	217
3.1.4.28.4	Simple Types	217
3.1.4.28.5	Attributes	218
3.1.4.28.6	Groups.....	218
3.1.4.28.7	Attribute Groups.....	218
3.1.4.29	GetAllProperties	218
3.1.4.29.1	Messages	219
3.1.4.29.1.1	BusinessDataCatalogSharedService_GetAllProperties_InputMessage.....	219
3.1.4.29.1.2	BusinessDataCatalogSharedService_GetAllProperties_OutputMessage	220
3.1.4.29.2	Elements	220
3.1.4.29.2.1	GetAllProperties.....	220
3.1.4.29.2.2	GetAllPropertiesResponse	220
3.1.4.29.3	Complex Types	221

3.1.4.29.4	Simple Types	221
3.1.4.29.5	Attributes	221
3.1.4.29.6	Groups	221
3.1.4.29.7	Attribute Groups	221
3.1.4.30	GetAllPropertiesForMetadataObjectStruct	221
3.1.4.30.1	Messages	222
3.1.4.30.1.1	BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage	223
3.1.4.30.1.2	BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage	223
3.1.4.30.2	Elements	223
3.1.4.30.2.1	GetAllPropertiesForMetadataObjectStruct	223
3.1.4.30.2.2	GetAllPropertiesForMetadataObjectStructResponse	224
3.1.4.30.3	Complex Types	224
3.1.4.30.4	Simple Types	224
3.1.4.30.5	Attributes	224
3.1.4.30.6	Groups	224
3.1.4.30.7	Attribute Groups	225
3.1.4.31	GetAssociationById	225
3.1.4.31.1	Messages	226
3.1.4.31.1.1	BusinessDataCatalogSharedService_GetAssociationById_InputMessage	226
3.1.4.31.1.2	BusinessDataCatalogSharedService_GetAssociationById_OutputMessage	226
3.1.4.31.2	Elements	226
3.1.4.31.2.1	GetAssociationById	227
3.1.4.31.2.2	GetAssociationByIdResponse	227
3.1.4.31.3	Complex Types	227
3.1.4.31.4	Simple Types	227
3.1.4.31.5	Attributes	228
3.1.4.31.6	Groups	228
3.1.4.31.7	Attribute Groups	228
3.1.4.32	GetAssociationGroupById	228
3.1.4.32.1	Messages	229
3.1.4.32.1.1	BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage	229
3.1.4.32.1.2	BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage	230
3.1.4.32.2	Elements	230
3.1.4.32.2.1	GetAssociationGroupById	230
3.1.4.32.2.2	GetAssociationGroupByIdResponse	230
3.1.4.32.3	Complex Types	231
3.1.4.32.4	Simple Types	231
3.1.4.32.5	Attributes	231
3.1.4.32.6	Groups	231
3.1.4.32.7	Attribute Groups	231
3.1.4.33	GetAssociationGroupsForEntity	231
3.1.4.33.1	Messages	232
3.1.4.33.1.1	BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage	232

3.1.4.33.1.2	BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage.....	233
3.1.4.33.2	Elements.....	233
3.1.4.33.2.1	GetAssociationGroupsForEntity.....	233
3.1.4.33.2.2	GetAssociationGroupsForEntityResponse.....	233
3.1.4.33.3	Complex Types.....	234
3.1.4.33.3.1	ArrayOfAssociationGroupStruct.....	234
3.1.4.33.4	Simple Types.....	234
3.1.4.33.5	Attributes.....	234
3.1.4.33.6	Groups.....	234
3.1.4.33.7	Attribute Groups.....	234
3.1.4.34	GetAssociationMembersInRole.....	234
3.1.4.34.1	Messages.....	236
3.1.4.34.1.1	BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage.....	236
3.1.4.34.1.2	BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage.....	236
3.1.4.34.2	Elements.....	236
3.1.4.34.2.1	GetAssociationMembersInRole.....	237
3.1.4.34.2.2	GetAssociationMembersInRoleResponse.....	237
3.1.4.34.3	Complex Types.....	238
3.1.4.34.3.1	ArrayOfAssociationMemberStruct.....	238
3.1.4.34.3.2	AssociationMemberStruct.....	238
3.1.4.34.4	Simple Types.....	239
3.1.4.34.5	Attributes.....	239
3.1.4.34.6	Groups.....	239
3.1.4.34.7	Attribute Groups.....	239
3.1.4.35	GetAssociationReferencesForAssociationGroup.....	239
3.1.4.35.1	Messages.....	240
3.1.4.35.1.1	BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage.....	241
3.1.4.35.1.2	BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage.....	241
3.1.4.35.2	Elements.....	241
3.1.4.35.2.1	GetAssociationReferencesForAssociationGroup.....	241
3.1.4.35.2.2	GetAssociationReferencesForAssociationGroupResponse.....	242
3.1.4.35.3	Complex Types.....	242
3.1.4.35.3.1	ArrayOfAssociationReferenceStruct.....	242
3.1.4.35.4	Simple Types.....	243
3.1.4.35.5	Attributes.....	243
3.1.4.35.6	Groups.....	243
3.1.4.35.7	Attribute Groups.....	243
3.1.4.36	GetAssociationsForDataClass.....	243
3.1.4.36.1	Messages.....	244
3.1.4.36.1.1	BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage.....	244
3.1.4.36.1.2	BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage.....	245
3.1.4.36.2	Elements.....	245
3.1.4.36.2.1	GetAssociationsForDataClass.....	245
3.1.4.36.2.2	GetAssociationsForDataClassResponse.....	245

3.1.4.36.3	Complex Types	246
3.1.4.36.4	Simple Types	246
3.1.4.36.5	Attributes	246
3.1.4.36.6	Groups	246
3.1.4.36.7	Attribute Groups	246
3.1.4.37	GetAssociationsForEntityAndRole	246
3.1.4.37.1	Messages	247
3.1.4.37.1.1	BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage	248
3.1.4.37.1.2	BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage	248
3.1.4.37.2	Elements	248
3.1.4.37.2.1	GetAssociationsForEntityAndRole	248
3.1.4.37.2.2	GetAssociationsForEntityAndRoleResponse	249
3.1.4.37.3	Complex Types	249
3.1.4.37.4	Simple Types	250
3.1.4.37.5	Attributes	250
3.1.4.37.6	Groups	250
3.1.4.37.7	Attribute Groups	250
3.1.4.38	GetAssociationsForMethod	250
3.1.4.38.1	Messages	251
3.1.4.38.1.1	BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage	251
3.1.4.38.1.2	BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage	252
3.1.4.38.2	Elements	252
3.1.4.38.2.1	GetAssociationsForMethod	252
3.1.4.38.2.2	GetAssociationsForMethodResponse	252
3.1.4.38.3	Complex Types	253
3.1.4.38.4	Simple Types	253
3.1.4.38.5	Attributes	253
3.1.4.38.6	Groups	253
3.1.4.38.7	Attribute Groups	253
3.1.4.39	GetCacheInvalidationRecordsSince	253
3.1.4.39.1	Messages	254
3.1.4.39.1.1	BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage	254
3.1.4.39.1.2	BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage	255
3.1.4.39.2	Elements	255
3.1.4.39.2.1	GetCacheInvalidationRecordsSince	255
3.1.4.39.2.2	GetCacheInvalidationRecordsSinceResponse	255
3.1.4.39.3	Complex Types	256
3.1.4.39.3.1	ArrayOfCacheInvalidationRecordStruct	256
3.1.4.39.3.2	CacheInvalidationRecordStruct	256
3.1.4.39.4	Simple Types	258
3.1.4.39.5	Attributes	258
3.1.4.39.6	Groups	258
3.1.4.39.7	Attribute Groups	258
3.1.4.40	GetChildTypeDescriptorsForTypeDescriptor	258
3.1.4.40.1	Messages	259

3.1.4.40.1.1	BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage	260
3.1.4.40.1.2	BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage	260
3.1.4.40.2	Elements	260
3.1.4.40.2.1	GetChildTypeDescriptorsForTypeDescriptor	260
3.1.4.40.2.2	GetChildTypeDescriptorsForTypeDescriptorResponse	261
3.1.4.40.3	Complex Types	261
3.1.4.40.4	Simple Types	261
3.1.4.40.5	Attributes	261
3.1.4.40.6	Groups.....	261
3.1.4.40.7	Attribute Groups.....	261
3.1.4.41	GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor	261
3.1.4.41.1	Messages	263
3.1.4.41.1.1	BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage	263
3.1.4.41.1.2	BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage	263
3.1.4.41.2	Elements	264
3.1.4.41.2.1	GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor.....	264
3.1.4.41.2.2	GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse	264
3.1.4.41.3	Complex Types	265
3.1.4.41.4	Simple Types	265
3.1.4.41.5	Attributes	265
3.1.4.41.6	Groups.....	265
3.1.4.41.7	Attribute Groups.....	265
3.1.4.42	GetDataClassById	265
3.1.4.42.1	Messages	266
3.1.4.42.1.1	BusinessDataCatalogSharedService_GetDataClassById_InputMessage	266
3.1.4.42.1.2	BusinessDataCatalogSharedService_GetDataClassById_OutputMessage	267
3.1.4.42.2	Elements.....	267
3.1.4.42.2.1	GetDataClassById	267
3.1.4.42.2.2	GetDataClassByIdResponse.....	267
3.1.4.42.3	Complex Types	268
3.1.4.42.4	Simple Types	268
3.1.4.42.5	Attributes	268
3.1.4.42.6	Groups.....	268
3.1.4.42.7	Attribute Groups.....	268
3.1.4.43	GetDataClassesForSystem.....	268
3.1.4.43.1	Messages	269
3.1.4.43.1.1	BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage	269
3.1.4.43.1.2	BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage	270
3.1.4.43.2	Elements	270
3.1.4.43.2.1	GetDataClassesForSystem	270
3.1.4.43.2.2	GetDataClassesForSystemResponse	270
3.1.4.43.3	Complex Types	271
3.1.4.43.3.1	ArrayOfDataClassStruct	271
3.1.4.43.4	Simple Types	271

3.1.4.43.5	Attributes	271
3.1.4.43.6	Groups.....	271
3.1.4.43.7	Attribute Groups.....	271
3.1.4.44	GetDefaultValuesForTypeDescriptor.....	272
3.1.4.44.1	Messages	273
3.1.4.44.1.1	BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor _InputMessage	273
3.1.4.44.1.2	BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor _OutputMessage.....	273
3.1.4.44.2	Elements.....	273
3.1.4.44.2.1	GetDefaultValuesForTypeDescriptor.....	274
3.1.4.44.2.2	GetDefaultValuesForTypeDescriptorResponse	274
3.1.4.44.3	Complex Types	274
3.1.4.44.3.1	ArrayOfDefaultValueStruct	275
3.1.4.44.4	Simple Types	275
3.1.4.44.5	Attributes	275
3.1.4.44.6	Groups.....	275
3.1.4.44.7	Attribute Groups.....	275
3.1.4.45	GetEntitiesForAssociationAndRole.....	275
3.1.4.45.1	Messages	276
3.1.4.45.1.1	BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_I nputMessage.....	277
3.1.4.45.1.2	BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ OutputMessage.....	277
3.1.4.45.2	Elements.....	277
3.1.4.45.2.1	GetEntitiesForAssociationAndRole	277
3.1.4.45.2.2	GetEntitiesForAssociationAndRoleResponse	278
3.1.4.45.3	Complex Types	278
3.1.4.45.4	Simple Types	278
3.1.4.45.5	Attributes	278
3.1.4.45.6	Groups.....	278
3.1.4.45.7	Attribute Groups.....	279
3.1.4.46	GetEntitiesForSystem	279
3.1.4.46.1	Messages	280
3.1.4.46.1.1	BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessag e	280
3.1.4.46.1.2	BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessa ge.....	280
3.1.4.46.2	Elements.....	280
3.1.4.46.2.1	GetEntitiesForSystem	281
3.1.4.46.2.2	GetEntitiesForSystemResponse.....	281
3.1.4.46.3	Complex Types	281
3.1.4.46.4	Simple Types	281
3.1.4.46.5	Attributes	281
3.1.4.46.6	Groups.....	282
3.1.4.46.7	Attribute Groups.....	282
3.1.4.47	GetEntitiesLikeNameAndNamespace	282
3.1.4.47.1	Messages	283
3.1.4.47.1.1	BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespac e_InputMessage	283

3.1.4.47.1.2	BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage	284
3.1.4.47.2	Elements	284
3.1.4.47.2.1	GetEntitiesLikeNameAndNamespace	284
3.1.4.47.2.2	GetEntitiesLikeNameAndNamespaceResponse	285
3.1.4.47.3	Complex Types	285
3.1.4.47.4	Simple Types	285
3.1.4.47.5	Attributes	286
3.1.4.47.6	Groups	286
3.1.4.47.7	Attribute Groups	286
3.1.4.48	GetEntitiesReferencedByModelId	286
3.1.4.48.1	Messages	287
3.1.4.48.1.1	BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage	287
3.1.4.48.1.2	BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage	288
3.1.4.48.2	Elements	288
3.1.4.48.2.1	GetEntitiesReferencedByModelId	288
3.1.4.48.2.2	GetEntitiesReferencedByModelIdResponse	288
3.1.4.48.3	Complex Types	289
3.1.4.48.4	Simple Types	289
3.1.4.48.4.1	EntityConstants.EntitiesInModelQuery	289
3.1.4.48.5	Attributes	290
3.1.4.48.6	Groups	290
3.1.4.48.7	Attribute Groups	290
3.1.4.49	GetEntityById	290
3.1.4.49.1	Messages	291
3.1.4.49.1.1	BusinessDataCatalogSharedService_GetEntityById_InputMessage ..	291
3.1.4.49.1.2	BusinessDataCatalogSharedService_GetEntityById_OutputMessage	291
3.1.4.49.2	Elements	291
3.1.4.49.2.1	GetEntityById	292
3.1.4.49.2.2	GetEntityByIdResponse	292
3.1.4.49.3	Complex Types	292
3.1.4.49.4	Simple Types	292
3.1.4.49.5	Attributes	292
3.1.4.49.6	Groups	293
3.1.4.49.7	Attribute Groups	293
3.1.4.50	GetEntityCount	293
3.1.4.50.1	Messages	294
3.1.4.50.1.1	BusinessDataCatalogSharedService_GetEntityCount_InputMessage	294
3.1.4.50.1.2	BusinessDataCatalogSharedService_GetEntityCount_OutputMessage	294
3.1.4.50.2	Elements	294
3.1.4.50.2.1	GetEntityCount	295
3.1.4.50.2.2	GetEntityCountResponse	295
3.1.4.50.3	Complex Types	295
3.1.4.50.4	Simple Types	295
3.1.4.50.5	Attributes	295
3.1.4.50.6	Groups	295
3.1.4.50.7	Attribute Groups	295
3.1.4.51	GetEntityNameAndNamespacesForAssociationAndRole	296
3.1.4.51.1	Messages	297
3.1.4.51.1.1	BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage	297

3.1.4.51.1.2	BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage.....	297
3.1.4.51.2	Elements.....	298
3.1.4.51.2.1	GetEntityNameAndNamespacesForAssociationAndRole.....	298
3.1.4.51.2.2	GetEntityNameAndNamespacesForAssociationAndRoleResponse	298
3.1.4.51.3	Complex Types	299
3.1.4.51.4	Simple Types	299
3.1.4.51.5	Attributes	299
3.1.4.51.6	Groups.....	299
3.1.4.51.7	Attribute Groups.....	299
3.1.4.52	GetEntityWithNameAndNamespace	299
3.1.4.52.1	Messages	300
3.1.4.52.1.1	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage	301
3.1.4.52.1.2	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage.....	301
3.1.4.52.2	Elements.....	301
3.1.4.52.2.1	GetEntityWithNameAndNamespace	301
3.1.4.52.2.2	GetEntityWithNameAndNamespaceResponse	302
3.1.4.52.3	Complex Types	302
3.1.4.52.4	Simple Types	302
3.1.4.52.5	Attributes	302
3.1.4.52.6	Groups.....	302
3.1.4.52.7	Attribute Groups.....	302
3.1.4.53	GetEntityWithNameAndNamespaceAndVersion.....	302
3.1.4.53.1	Messages	304
3.1.4.53.1.1	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage	304
3.1.4.53.1.2	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage	304
3.1.4.53.2	Elements.....	304
3.1.4.53.2.1	GetEntityWithNameAndNamespaceAndVersion	305
3.1.4.53.2.2	GetEntityWithNameAndNamespaceAndVersionResponse	305
3.1.4.53.3	Complex Types	305
3.1.4.53.4	Simple Types	306
3.1.4.53.5	Attributes	306
3.1.4.53.6	Groups.....	306
3.1.4.53.7	Attribute Groups.....	306
3.1.4.54	GetFieldTypeDescriptorsByMethodInstance.....	306
3.1.4.54.1	Messages	307
3.1.4.54.1.1	BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage	308
3.1.4.54.1.2	BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage	308
3.1.4.54.2	Elements.....	308
3.1.4.54.2.1	GetFieldTypeDescriptorsByMethodInstance	308
3.1.4.54.2.2	GetFieldTypeDescriptorsByMethodInstanceResponse	309
3.1.4.54.3	Complex Types	309
3.1.4.54.4	Simple Types	309
3.1.4.54.5	Attributes	309
3.1.4.54.6	Groups.....	309

3.1.4.54.7	Attribute Groups.....	309
3.1.4.55	GetFilterDescriptorById.....	309
3.1.4.55.1	Messages	311
3.1.4.55.1.1	BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage	311
3.1.4.55.1.2	BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage.....	311
3.1.4.55.2	Elements.....	311
3.1.4.55.2.1	GetFilterDescriptorById	312
3.1.4.55.2.2	GetFilterDescriptorByIdResponse	312
3.1.4.55.3	Complex Types	312
3.1.4.55.4	Simple Types	312
3.1.4.55.5	Attributes	312
3.1.4.55.6	Groups.....	312
3.1.4.55.7	Attribute Groups.....	313
3.1.4.56	GetFilterDescriptorsForMethod.....	313
3.1.4.56.1	Messages	314
3.1.4.56.1.1	BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage	314
3.1.4.56.1.2	BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage.....	314
3.1.4.56.2	Elements.....	314
3.1.4.56.2.1	GetFilterDescriptorsForMethod.....	315
3.1.4.56.2.2	GetFilterDescriptorsForMethodResponse	315
3.1.4.56.3	Complex Types	315
3.1.4.56.3.1	ArrayOfFilterDescriptorStruct.....	316
3.1.4.56.4	Simple Types	316
3.1.4.56.5	Attributes	316
3.1.4.56.6	Groups.....	316
3.1.4.56.7	Attribute Groups.....	316
3.1.4.57	GetIdentifierById	316
3.1.4.57.1	Messages	317
3.1.4.57.1.1	BusinessDataCatalogSharedService_GetIdentifierById_InputMessage	318
3.1.4.57.1.2	BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage	318
3.1.4.57.2	Elements.....	318
3.1.4.57.2.1	GetIdentifierById	318
3.1.4.57.2.2	GetIdentifierByIdResponse.....	319
3.1.4.57.3	Complex Types	319
3.1.4.57.4	Simple Types	319
3.1.4.57.5	Attributes	319
3.1.4.57.6	Groups.....	319
3.1.4.57.7	Attribute Groups.....	319
3.1.4.58	GetIdentifiersForEntity.....	319
3.1.4.58.1	Messages	320
3.1.4.58.1.1	BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage.....	321
3.1.4.58.1.2	BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage	321
3.1.4.58.2	Elements.....	321
3.1.4.58.2.1	GetIdentifiersForEntity.....	321

3.1.4.58.2.2	GetIdentifiersForEntityResponse	322
3.1.4.58.3	Complex Types	322
3.1.4.58.3.1	ArrayOfIdentifierStruct	322
3.1.4.58.4	Simple Types	322
3.1.4.58.5	Attributes	323
3.1.4.58.6	Groups.....	323
3.1.4.58.7	Attribute Groups.....	323
3.1.4.59	GetImportProgress.....	323
3.1.4.59.1	Messages	323
3.1.4.59.1.1	BusinessDataCatalogSharedService_GetImportProgress_InputMessage	323
3.1.4.59.1.2	BusinessDataCatalogSharedService_GetImportProgress_OutputMessage	324
3.1.4.59.2	Elements.....	324
3.1.4.59.2.1	GetImportProgress.....	324
3.1.4.59.2.2	GetImportProgressResponse	324
3.1.4.59.3	Complex Types	325
3.1.4.59.4	Simple Types	325
3.1.4.59.5	Attributes	325
3.1.4.59.6	Groups.....	325
3.1.4.59.7	Attribute Groups.....	325
3.1.4.60	GetLevelForTypeDescriptor.....	325
3.1.4.60.1	Messages	326
3.1.4.60.1.1	BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputM essage	327
3.1.4.60.1.2	BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_Output Message	327
3.1.4.60.2	Elements.....	327
3.1.4.60.2.1	GetLevelForTypeDescriptor	327
3.1.4.60.2.2	GetLevelForTypeDescriptorResponse	328
3.1.4.60.3	Complex Types	328
3.1.4.60.4	Simple Types	328
3.1.4.60.5	Attributes	328
3.1.4.60.6	Groups.....	328
3.1.4.60.7	Attribute Groups.....	328
3.1.4.61	GetLobSystemAllAssembliesBytes	328
3.1.4.61.1	Messages	330
3.1.4.61.1.1	BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_I nputMessage.....	330
3.1.4.61.1.2	BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ OutputMessage.....	330
3.1.4.61.2	Elements.....	330
3.1.4.61.2.1	GetLobSystemAllAssembliesBytes	331
3.1.4.61.2.2	GetLobSystemAllAssembliesBytesResponse	331
3.1.4.61.3	Complex Types	331
3.1.4.61.4	Simple Types	331
3.1.4.61.5	Attributes	331
3.1.4.61.6	Groups.....	332
3.1.4.61.7	Attribute Groups.....	332
3.1.4.62	GetLobSystemById.....	332
3.1.4.62.1	Messages	333
3.1.4.62.1.1	BusinessDataCatalogSharedService_GetLobSystemById_InputMessage	334

3.1.4.62.1.2	BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage	334
3.1.4.62.2	Elements	334
3.1.4.62.2.1	GetLobSystemById	334
3.1.4.62.2.2	GetLobSystemByIdResponse	334
3.1.4.62.3	Complex Types	335
3.1.4.62.4	Simple Types	335
3.1.4.62.5	Attributes	335
3.1.4.62.6	Groups	335
3.1.4.62.7	Attribute Groups	335
3.1.4.63	GetLobSystemByName	335
3.1.4.63.1	Messages	337
3.1.4.63.1.1	BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage	337
3.1.4.63.1.2	BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage	337
3.1.4.63.2	Elements	337
3.1.4.63.2.1	GetLobSystemByName	338
3.1.4.63.2.2	GetLobSystemByNameResponse	338
3.1.4.63.3	Complex Types	338
3.1.4.63.4	Simple Types	338
3.1.4.63.5	Attributes	338
3.1.4.63.6	Groups	339
3.1.4.63.7	Attribute Groups	339
3.1.4.64	GetLobSystemDataByLobSystem	339
3.1.4.64.1	Messages	340
3.1.4.64.1.1	BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage	340
3.1.4.64.1.2	BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage	341
3.1.4.64.2	Elements	341
3.1.4.64.2.1	GetLobSystemDataByLobSystem	341
3.1.4.64.2.2	GetLobSystemDataByLobSystemResponse	341
3.1.4.64.3	Complex Types	342
3.1.4.64.4	Simple Types	342
3.1.4.64.5	Attributes	342
3.1.4.64.6	Groups	342
3.1.4.64.7	Attribute Groups	342
3.1.4.65	GetLobSystemInstanceById	342
3.1.4.65.1	Messages	344
3.1.4.65.1.1	BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage	344
3.1.4.65.1.2	BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage	345
3.1.4.65.2	Elements	345
3.1.4.65.2.1	GetLobSystemInstanceById	345
3.1.4.65.2.2	GetLobSystemInstanceByIdResponse	345
3.1.4.65.3	Complex Types	346
3.1.4.65.4	Simple Types	346
3.1.4.65.5	Attributes	346
3.1.4.65.6	Groups	346
3.1.4.65.7	Attribute Groups	346

3.1.4.66	GetLobSystemInstancesForLobSystem.....	346
3.1.4.66.1	Messages	347
3.1.4.66.1.1	BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage	348
3.1.4.66.1.2	BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage	348
3.1.4.66.2	Elements.....	348
3.1.4.66.2.1	GetLobSystemInstancesForLobSystem.....	348
3.1.4.66.2.2	GetLobSystemInstancesForLobSystemResponse	349
3.1.4.66.3	Complex Types	349
3.1.4.66.3.1	ArrayOfLobSystemInstanceStruct.....	349
3.1.4.66.4	Simple Types	350
3.1.4.66.5	Attributes	350
3.1.4.66.6	Groups.....	350
3.1.4.66.7	Attribute Groups.....	350
3.1.4.67	GetLobSystemProxyAssemblyBytesByLobSystemId	350
3.1.4.67.1	Messages	351
3.1.4.67.1.1	BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage	352
3.1.4.67.1.2	BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage	352
3.1.4.67.2	Elements.....	352
3.1.4.67.2.1	GetLobSystemProxyAssemblyBytesByLobSystemId	352
3.1.4.67.2.2	GetLobSystemProxyAssemblyBytesByLobSystemIdResponse	353
3.1.4.67.3	Complex Types	353
3.1.4.67.4	Simple Types	353
3.1.4.67.5	Attributes	353
3.1.4.67.6	Groups.....	353
3.1.4.67.7	Attribute Groups.....	353
3.1.4.68	GetLobSystemsLikeName.....	354
3.1.4.68.1	Messages	355
3.1.4.68.1.1	BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage	355
3.1.4.68.1.2	BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage	355
3.1.4.68.2	Elements.....	356
3.1.4.68.2.1	GetLobSystemsLikeName.....	356
3.1.4.68.2.2	GetLobSystemsLikeNameResponse	356
3.1.4.68.3	Complex Types	357
3.1.4.68.4	Simple Types	357
3.1.4.68.5	Attributes	357
3.1.4.68.6	Groups.....	357
3.1.4.68.7	Attribute Groups.....	357
3.1.4.69	GetLobSystemsReferencedByEntitiesAssociatedWithModel.....	357
3.1.4.69.1	Messages	358
3.1.4.69.1.1	BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage	359
3.1.4.69.1.2	BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage	359
3.1.4.69.2	Elements	359

3.1.4.69.2.1	GetLobSystemsReferencedByEntitiesAssociatedWithModel.....	359
3.1.4.69.2.2	GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse	360
3.1.4.69.3	Complex Types	360
3.1.4.69.4	Simple Types	360
3.1.4.69.4.1	LobSystemConstants.LobSystemsInModelQuery	361
3.1.4.69.5	Attributes	361
3.1.4.69.6	Groups.....	361
3.1.4.69.7	Attribute Groups.....	361
3.1.4.70	GetMethodById.....	361
3.1.4.70.1	Messages	362
3.1.4.70.1.1	BusinessDataCatalogSharedService_GetMethodById_InputMessage	363
3.1.4.70.1.2	BusinessDataCatalogSharedService_GetMethodById_OutputMessage	363
3.1.4.70.2	Elements.....	363
3.1.4.70.2.1	GetMethodById.....	363
3.1.4.70.2.2	GetMethodByIdResponse	364
3.1.4.70.3	Complex Types	364
3.1.4.70.4	Simple Types	364
3.1.4.70.5	Attributes	364
3.1.4.70.6	Groups.....	364
3.1.4.70.7	Attribute Groups.....	364
3.1.4.71	GetMethodInstanceById.....	364
3.1.4.71.1	Messages	366
3.1.4.71.1.1	BusinessDataCatalogSharedService_GetMethodInstanceById_InputMess	age
3.1.4.71.1.2	BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMe	ssage
3.1.4.71.2	Elements.....	366
3.1.4.71.2.1	GetMethodInstanceById.....	367
3.1.4.71.2.2	GetMethodInstanceByIdResponse	367
3.1.4.71.3	Complex Types	367
3.1.4.71.4	Simple Types	367
3.1.4.71.5	Attributes	367
3.1.4.71.6	Groups.....	367
3.1.4.71.7	Attribute Groups.....	368
3.1.4.72	GetMethodInstancesForDataClass	368
3.1.4.72.1	Messages	369
3.1.4.72.1.1	BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_I	np
3.1.4.72.1.2	BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_	OutputMessage.....
3.1.4.72.2	Elements.....	369
3.1.4.72.2.1	GetMethodInstancesForDataClass	370
3.1.4.72.2.2	GetMethodInstancesForDataClassResponse	370
3.1.4.72.3	Complex Types	370
3.1.4.72.4	Simple Types	370
3.1.4.72.5	Attributes	371
3.1.4.72.6	Groups.....	371
3.1.4.72.7	Attribute Groups.....	371
3.1.4.73	GetMethodInstancesForMethod	371
3.1.4.73.1	Messages	372
3.1.4.73.1.1	BusinessDataCatalogSharedService_GetMethodInstancesForMethod_Inp	utMessage

3.1.4.73.1.2	BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage	373
3.1.4.73.2	Elements	373
3.1.4.73.2.1	GetMethodInstancesForMethod	373
3.1.4.73.2.2	GetMethodInstancesForMethodResponse	373
3.1.4.73.3	Complex Types	374
3.1.4.73.4	Simple Types	374
3.1.4.73.5	Attributes	374
3.1.4.73.6	Groups	374
3.1.4.73.7	Attribute Groups	374
3.1.4.74	GetMethodsForDataClass	374
3.1.4.74.1	Messages	375
3.1.4.74.1.1	BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage	375
3.1.4.74.1.2	BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage	376
3.1.4.74.2	Elements	376
3.1.4.74.2.1	GetMethodsForDataClass	376
3.1.4.74.2.2	GetMethodsForDataClassResponse	376
3.1.4.74.3	Complex Types	377
3.1.4.74.3.1	ArrayOfMethodStruct	377
3.1.4.74.4	Simple Types	377
3.1.4.74.5	Attributes	377
3.1.4.74.6	Groups	377
3.1.4.74.7	Attribute Groups	377
3.1.4.75	GetModelById	377
3.1.4.75.1	Messages	378
3.1.4.75.1.1	BusinessDataCatalogSharedService_GetModelById_InputMessage ..	379
3.1.4.75.1.2	BusinessDataCatalogSharedService_GetModelById_OutputMessage	379
3.1.4.75.2	Elements	379
3.1.4.75.2.1	GetModelById	379
3.1.4.75.2.2	GetModelByIdResponse	380
3.1.4.75.3	Complex Types	380
3.1.4.75.4	Simple Types	380
3.1.4.75.5	Attributes	380
3.1.4.75.6	Groups	380
3.1.4.75.7	Attribute Groups	380
3.1.4.76	GetModelByName	380
3.1.4.76.1	Messages	381
3.1.4.76.1.1	BusinessDataCatalogSharedService_GetModelByName_InputMessage	382
3.1.4.76.1.2	BusinessDataCatalogSharedService_GetModelByName_OutputMessage	382
3.1.4.76.2	Elements	382
3.1.4.76.2.1	GetModelByName	382
3.1.4.76.2.2	GetModelByNameResponse	383
3.1.4.76.3	Complex Types	383
3.1.4.76.4	Simple Types	383
3.1.4.76.5	Attributes	383
3.1.4.76.6	Groups	383
3.1.4.76.7	Attribute Groups	383
3.1.4.77	GetModelsByEntityId	383
3.1.4.77.1	Messages	384

3.1.4.77.1.1	BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage	385
3.1.4.77.1.2	BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage.....	385
3.1.4.77.2	Elements	385
3.1.4.77.2.1	GetModelsByEntityId	385
3.1.4.77.2.2	GetModelsByEntityIdResponse	386
3.1.4.77.3	Complex Types	386
3.1.4.77.4	Simple Types	386
3.1.4.77.5	Attributes	386
3.1.4.77.6	Groups.....	386
3.1.4.77.7	Attribute Groups.....	386
3.1.4.78	GetModelsByName	386
3.1.4.78.1	Messages	387
3.1.4.78.1.1	BusinessDataCatalogSharedService_GetModelsByName_InputMessage	388
3.1.4.78.1.2	BusinessDataCatalogSharedService_GetModelsByName_OutputMessage	388
3.1.4.78.2	Elements	388
3.1.4.78.2.1	GetModelsByName	388
3.1.4.78.2.2	GetModelsByNameResponse	389
3.1.4.78.3	Complex Types	389
3.1.4.78.4	Simple Types	389
3.1.4.78.5	Attributes	389
3.1.4.78.6	Groups.....	389
3.1.4.78.7	Attribute Groups.....	390
3.1.4.79	GetParameterById	390
3.1.4.79.1	Messages	391
3.1.4.79.1.1	BusinessDataCatalogSharedService_GetParameterById_InputMessage	391
3.1.4.79.1.2	BusinessDataCatalogSharedService_GetParameterById_OutputMessage	391
3.1.4.79.2	Elements	391
3.1.4.79.2.1	GetParameterById	392
3.1.4.79.2.2	GetParameterByIdResponse	392
3.1.4.79.3	Complex Types	392
3.1.4.79.4	Simple Types	392
3.1.4.79.5	Attributes	392
3.1.4.79.6	Groups.....	393
3.1.4.79.7	Attribute Groups.....	393
3.1.4.80	GetParametersForMethod	393
3.1.4.80.1	Messages	394
3.1.4.80.1.1	BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage	394
3.1.4.80.1.2	BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage	394
3.1.4.80.2	Elements	395
3.1.4.80.2.1	GetParametersForMethod.....	395
3.1.4.80.2.2	GetParametersForMethodResponse	395
3.1.4.80.3	Complex Types	395
3.1.4.80.3.1	ArrayOfParameterStruct	396
3.1.4.80.4	Simple Types	396
3.1.4.80.5	Attributes	396
3.1.4.80.6	Groups.....	396

3.1.4.80.7	Attribute Groups.....	396
3.1.4.81	GetRootTypeDescriptorForParameter	396
3.1.4.81.1	Messages	397
3.1.4.81.1.1	BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage	398
3.1.4.81.1.2	BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage	398
3.1.4.81.2	Elements.....	398
3.1.4.81.2.1	GetRootTypeDescriptorForParameter	398
3.1.4.81.2.2	GetRootTypeDescriptorForParameterResponse.....	399
3.1.4.81.3	Complex Types	399
3.1.4.81.4	Simple Types	399
3.1.4.81.5	Attributes	399
3.1.4.81.6	Groups.....	399
3.1.4.81.7	Attribute Groups.....	399
3.1.4.82	GetServiceApplicationId	399
3.1.4.82.1	Messages	400
3.1.4.82.1.1	BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage	400
3.1.4.82.1.2	BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage	400
3.1.4.82.2	Elements.....	400
3.1.4.82.2.1	GetServiceApplicationId	401
3.1.4.82.2.2	GetServiceApplicationIdResponse.....	401
3.1.4.82.3	Complex Types	401
3.1.4.82.4	Simple Types	401
3.1.4.82.5	Attributes	401
3.1.4.82.6	Groups.....	401
3.1.4.82.7	Attribute Groups.....	401
3.1.4.83	GetSystemUtilityTypeNameForLobSystem	402
3.1.4.83.1	Messages	403
3.1.4.83.1.1	BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage	403
3.1.4.83.1.2	BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage	403
3.1.4.83.2	Elements.....	404
3.1.4.83.2.1	GetSystemUtilityTypeNameForLobSystem	404
3.1.4.83.2.2	GetSystemUtilityTypeNameForLobSystemResponse.....	404
3.1.4.83.3	Complex Types	404
3.1.4.83.4	Simple Types	404
3.1.4.83.5	Attributes	405
3.1.4.83.6	Groups.....	405
3.1.4.83.7	Attribute Groups.....	405
3.1.4.84	GetThrottlingRules	405
3.1.4.84.1	Messages	405
3.1.4.84.1.1	BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage	406
3.1.4.84.1.2	BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage	406
3.1.4.84.2	Elements.....	406
3.1.4.84.2.1	GetThrottlingRules	406
3.1.4.84.2.2	GetThrottlingRulesResponse	406

3.1.4.84.3	Complex Types	407
3.1.4.84.3.1	ArrayOfSafetyNetStruct	407
3.1.4.84.4	Simple Types	407
3.1.4.84.5	Attributes	407
3.1.4.84.6	Groups	407
3.1.4.84.7	Attribute Groups.....	407
3.1.4.85	GetTypeDescriptorById	407
3.1.4.85.1	Messages	409
3.1.4.85.1.1	BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage	409
3.1.4.85.1.2	BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage.....	409
3.1.4.85.2	Elements	409
3.1.4.85.2.1	GetTypeDescriptorById	410
3.1.4.85.2.2	GetTypeDescriptorByIdResponse	410
3.1.4.85.3	Complex Types	410
3.1.4.85.4	Simple Types	410
3.1.4.85.5	Attributes	410
3.1.4.85.6	Groups.....	410
3.1.4.85.7	Attribute Groups.....	411
3.1.4.86	GetTypeDescriptorsByNameAndLevelForParameter.....	411
3.1.4.86.1	Messages	412
3.1.4.86.1.1	BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage	412
3.1.4.86.1.2	BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage	413
3.1.4.86.2	Elements	413
3.1.4.86.2.1	GetTypeDescriptorsByNameAndLevelForParameter.....	413
3.1.4.86.2.2	GetTypeDescriptorsByNameAndLevelForParameterResponse	414
3.1.4.86.3	Complex Types	414
3.1.4.86.4	Simple Types	414
3.1.4.86.5	Attributes	414
3.1.4.86.6	Groups.....	414
3.1.4.86.7	Attribute Groups.....	414
3.1.4.87	GetTypeDescriptorsForFilterDescriptor	414
3.1.4.87.1	Messages	415
3.1.4.87.1.1	BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage	416
3.1.4.87.1.2	BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage.....	416
3.1.4.87.2	Elements	416
3.1.4.87.2.1	GetTypeDescriptorsForFilterDescriptor	416
3.1.4.87.2.2	GetTypeDescriptorsForFilterDescriptorResponse.....	417
3.1.4.87.3	Complex Types	417
3.1.4.87.4	Simple Types	417
3.1.4.87.5	Attributes	417
3.1.4.87.6	Groups.....	417
3.1.4.87.7	Attribute Groups.....	417
3.1.4.88	GetTypeReflectorTypeNameForParameter	417
3.1.4.88.1	Messages	419

3.1.4.88.1.1	BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage.....	419
3.1.4.88.1.2	BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage	419
3.1.4.88.2	Elements	419
3.1.4.88.2.1	GetTypeReflectorTypeNameForParameter	420
3.1.4.88.2.2	GetTypeReflectorTypeNameForParameterResponse	420
3.1.4.88.3	Complex Types	420
3.1.4.88.4	Simple Types	420
3.1.4.88.5	Attributes	420
3.1.4.88.6	Groups.....	421
3.1.4.88.7	Attribute Groups.....	421
3.1.4.89	GetXmlSchemaForView	421
3.1.4.89.1	Messages	421
3.1.4.89.1.1	BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage	422
3.1.4.89.1.2	BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage.....	422
3.1.4.89.2	Elements	422
3.1.4.89.2.1	GetXmlSchemaForView.....	422
3.1.4.89.2.2	GetXmlSchemaForViewResponse	423
3.1.4.89.3	Complex Types	423
3.1.4.89.4	Simple Types	423
3.1.4.89.5	Attributes	423
3.1.4.89.6	Groups.....	423
3.1.4.89.7	Attribute Groups.....	423
3.1.4.90	HaveRights.....	423
3.1.4.90.1	Messages	424
3.1.4.90.1.1	BusinessDataCatalogSharedService_HaveRights_InputMessage	425
3.1.4.90.1.2	BusinessDataCatalogSharedService_HaveRights_OutputMessage	425
3.1.4.90.2	Elements	425
3.1.4.90.2.1	HaveRights	425
3.1.4.90.2.2	HaveRightsResponse	426
3.1.4.90.3	Complex Types	426
3.1.4.90.4	Simple Types	426
3.1.4.90.4.1	BdcRights	426
3.1.4.90.5	Attributes	427
3.1.4.90.6	Groups.....	427
3.1.4.90.7	Attribute Groups.....	427
3.1.4.91	ImportPackage	427
3.1.4.91.1	Messages	430
3.1.4.91.1.1	BusinessDataCatalogSharedService_ImportPackage_InputMessage	431
3.1.4.91.1.2	BusinessDataCatalogSharedService_ImportPackage_OutputMessage.....	431
3.1.4.91.2	Elements.....	431
3.1.4.91.2.1	ImportPackage	431
3.1.4.91.2.2	ImportPackageResponse.....	432
3.1.4.91.3	Complex Types	433
3.1.4.91.4	Simple Types	433
3.1.4.91.5	Attributes	433
3.1.4.91.6	Groups.....	433
3.1.4.91.7	Attribute Groups.....	433
3.1.4.92	ImportPackageWithProgress	433
3.1.4.92.1	Messages	436

3.1.4.92.1.1	BusinessDataCatalogSharedService_ImportPackageWithProgress_Input Message	437
3.1.4.92.1.2	BusinessDataCatalogSharedService_ImportPackageWithProgress_Outpu tMessage	437
3.1.4.92.2	Elements	437
3.1.4.92.2.1	ImportPackageWithProgress	437
3.1.4.92.2.2	ImportPackageWithProgressResponse	438
3.1.4.92.3	Complex Types	439
3.1.4.92.4	Simple Types	439
3.1.4.92.5	Attributes	439
3.1.4.92.6	Groups.....	439
3.1.4.92.7	Attribute Groups.....	439
3.1.4.93	IsMethodInstantiated.....	439
3.1.4.93.1	Messages	440
3.1.4.93.1.1	BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessag e	440
3.1.4.93.1.2	BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessa ge.....	441
3.1.4.93.2	Elements	441
3.1.4.93.2.1	IsMethodInstantiated	441
3.1.4.93.2.2	IsMethodInstantiatedResponse	441
3.1.4.93.3	Complex Types	442
3.1.4.93.4	Simple Types	442
3.1.4.93.5	Attributes	442
3.1.4.93.6	Groups.....	442
3.1.4.93.7	Attribute Groups.....	442
3.1.4.94	IsParameterReferencedByMethodInstance	442
3.1.4.94.1	Messages	443
3.1.4.94.1.1	BusinessDataCatalogSharedService_IsParameterReferencedByMethodIn stance_InputMessage.....	444
3.1.4.94.1.2	BusinessDataCatalogSharedService_IsParameterReferencedByMethodIn stance_OutputMessage.....	444
3.1.4.94.2	Elements	444
3.1.4.94.2.1	IsParameterReferencedByMethodInstance.....	444
3.1.4.94.2.2	IsParameterReferencedByMethodInstanceResponse	445
3.1.4.94.3	Complex Types	445
3.1.4.94.4	Simple Types	445
3.1.4.94.5	Attributes	445
3.1.4.94.6	Groups.....	445
3.1.4.94.7	Attribute Groups.....	445
3.1.4.95	MetadataObjectCreate	445
3.1.4.95.1	Messages	451
3.1.4.95.1.1	BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessa ge.....	451
3.1.4.95.1.2	BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMess age	452
3.1.4.95.2	Elements	452
3.1.4.95.2.1	MetadataObjectCreate	452
3.1.4.95.2.2	MetadataObjectCreateResponse.....	452
3.1.4.95.3	Complex Types	453

3.1.4.95.4	Simple Types	453
3.1.4.95.5	Attributes	453
3.1.4.95.6	Groups	453
3.1.4.95.7	Attribute Groups.....	453
3.1.4.96	MetadataObjectMergeXml	453
3.1.4.96.1	Messages	456
3.1.4.96.1.1	BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage	456
3.1.4.96.1.2	BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage	456
3.1.4.96.2	Elements	456
3.1.4.96.2.1	MetadataObjectMergeXml	456
3.1.4.96.2.2	MetadataObjectMergeXmlResponse	458
3.1.4.96.3	Complex Types	459
3.1.4.96.4	Simple Types	459
3.1.4.96.5	Attributes	459
3.1.4.96.6	Groups.....	459
3.1.4.96.7	Attribute Groups.....	459
3.1.4.97	MetadataObjectReadXml	459
3.1.4.97.1	Messages	464
3.1.4.97.1.1	BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage.....	464
3.1.4.97.1.2	BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage	464
3.1.4.97.2	Elements	465
3.1.4.97.2.1	MetadataObjectReadXml.....	465
3.1.4.97.2.2	MetadataObjectReadXmlResponse.....	466
3.1.4.97.3	Complex Types	467
3.1.4.97.4	Simple Types	467
3.1.4.97.5	Attributes	467
3.1.4.97.6	Groups.....	467
3.1.4.97.7	Attribute Groups.....	467
3.1.4.98	MetadataObjectWriteXml	467
3.1.4.98.1	Messages	469
3.1.4.98.1.1	BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage.....	469
3.1.4.98.1.2	BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage	469
3.1.4.98.2	Elements	469
3.1.4.98.2.1	MetadataObjectWriteXml	470
3.1.4.98.2.2	MetadataObjectWriteXmlResponse	471
3.1.4.98.3	Complex Types	472
3.1.4.98.4	Simple Types	472
3.1.4.98.5	Attributes	472
3.1.4.98.6	Groups.....	472
3.1.4.98.7	Attribute Groups.....	472
3.1.4.99	ModelReadXml.....	473
3.1.4.99.1	Messages	476
3.1.4.99.1.1	BusinessDataCatalogSharedService_ModelReadXml_InputMessage	476
3.1.4.99.1.2	BusinessDataCatalogSharedService_ModelReadXml_OutputMessage.....	476
3.1.4.99.2	Elements	477
3.1.4.99.2.1	ModelReadXml.....	477

3.1.4.99.2.2	ModelReadXmlResponse	478
3.1.4.99.3	Complex Types	478
3.1.4.99.4	Simple Types	478
3.1.4.99.5	Attributes	478
3.1.4.99.6	Groups	478
3.1.4.99.7	Attribute Groups.....	478
3.1.4.100	ReadSlicedXml.....	479
3.1.4.100.1	Messages	480
3.1.4.100.1.1	BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage	480
3.1.4.100.1.2	BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage	480
3.1.4.100.2	Elements	481
3.1.4.100.2.1	ReadSlicedXml.....	481
3.1.4.100.2.2	ReadSlicedXmlResponse	481
3.1.4.100.3	Complex Types	482
3.1.4.100.4	Simple Types	482
3.1.4.100.5	Attributes	482
3.1.4.100.6	Groups.....	482
3.1.4.100.7	Attribute Groups.....	482
3.1.4.101	RemoveEntityFromModel.....	482
3.1.4.101.1	Messages	483
3.1.4.101.1.1	BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMes sage.....	484
3.1.4.101.1.2	BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMe ssage	484
3.1.4.101.2	Elements.....	484
3.1.4.101.2.1	RemoveEntityFromModel	484
3.1.4.101.2.2	RemoveEntityFromModelResponse	485
3.1.4.101.3	Complex Types	485
3.1.4.101.4	Simple Types	485
3.1.4.101.5	Attributes	485
3.1.4.101.6	Groups.....	485
3.1.4.101.7	Attribute Groups.....	485
3.1.4.102	RemoveLocalizedName	485
3.1.4.102.1	Messages	486
3.1.4.102.1.1	BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessa ge.....	487
3.1.4.102.1.2	BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMes sage.....	487
3.1.4.102.2	Elements.....	487
3.1.4.102.2.1	RemoveLocalizedName	487
3.1.4.102.2.2	RemoveLocalizedNameResponse	488
3.1.4.102.3	Complex Types	488
3.1.4.102.4	Simple Types	488
3.1.4.102.5	Attributes	488
3.1.4.102.6	Groups.....	488
3.1.4.102.7	Attribute Groups.....	488
3.1.4.103	RemoveProperty	488
3.1.4.103.1	Messages	490
3.1.4.103.1.1	BusinessDataCatalogSharedService_RemoveProperty_InputMessage	490
3.1.4.103.1.2	BusinessDataCatalogSharedService_RemoveProperty_OutputMessage	490
3.1.4.103.2	Elements.....	490
3.1.4.103.2.1	RemoveProperty	490
3.1.4.103.2.2	RemovePropertyResponse.....	491

3.1.4.103.3	Complex Types	491
3.1.4.103.4	Simple Types	491
3.1.4.103.5	Attributes	491
3.1.4.103.6	Groups	491
3.1.4.103.7	Attribute Groups	491
3.1.4.104	RemoveThrottlingRule	491
3.1.4.104.1	Messages	492
3.1.4.104.1.1	BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage	493
3.1.4.104.1.2	BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage	493
3.1.4.104.2	Elements	493
3.1.4.104.2.1	RemoveThrottlingRule	493
3.1.4.104.2.2	RemoveThrottlingRuleResponse	494
3.1.4.104.3	Complex Types	494
3.1.4.104.4	Simple Types	494
3.1.4.104.5	Attributes	494
3.1.4.104.6	Groups	494
3.1.4.104.7	Attribute Groups	494
3.1.4.105	SaveLocalizedName	494
3.1.4.105.1	Messages	495
3.1.4.105.1.1	BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage	496
3.1.4.105.1.2	BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage	496
3.1.4.105.2	Elements	496
3.1.4.105.2.1	SaveLocalizedName	496
3.1.4.105.2.2	SaveLocalizedNameResponse	497
3.1.4.105.3	Complex Types	497
3.1.4.105.4	Simple Types	497
3.1.4.105.5	Attributes	497
3.1.4.105.6	Groups	497
3.1.4.105.7	Attribute Groups	497
3.1.4.106	SaveProperty	497
3.1.4.106.1	Messages	498
3.1.4.106.1.1	BusinessDataCatalogSharedService_SaveProperty_InputMessage	499
3.1.4.106.1.2	BusinessDataCatalogSharedService_SaveProperty_OutputMessage	499
3.1.4.106.2	Elements	499
3.1.4.106.2.1	SaveProperty	499
3.1.4.106.2.2	SavePropertyResponse	500
3.1.4.106.3	Complex Types	500
3.1.4.106.4	Simple Types	500
3.1.4.106.5	Attributes	500
3.1.4.106.6	Groups	500
3.1.4.106.7	Attribute Groups	500
3.1.4.107	SetAccessControlEntries	500
3.1.4.107.1	Messages	502
3.1.4.107.1.1	BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage	502
3.1.4.107.1.2	BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage	503
3.1.4.107.2	Elements	503
3.1.4.107.2.1	SetAccessControlEntries	503

3.1.4.107.2.2	SetAccessControlEntriesResponse	503
3.1.4.107.3	Complex Types	504
3.1.4.107.4	Simple Types	504
3.1.4.107.5	Attributes	504
3.1.4.107.6	Groups	504
3.1.4.107.7	Attribute Groups.....	504
3.1.4.108	SetDefaultActionForEntity	504
3.1.4.108.1	Messages	505
3.1.4.108.1.1	BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage	506
3.1.4.108.1.2	BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage	506
3.1.4.108.2	Elements.....	506
3.1.4.108.2.1	SetDefaultActionForEntity	506
3.1.4.108.2.2	SetDefaultActionForEntityResponse	507
3.1.4.108.3	Complex Types	507
3.1.4.108.4	Simple Types	507
3.1.4.108.5	Attributes	507
3.1.4.108.6	Groups.....	507
3.1.4.108.7	Attribute Groups.....	507
3.1.4.109	SetDefaultValuesForTypeDescriptor.....	507
3.1.4.109.1	Messages	509
3.1.4.109.1.1	BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage	509
3.1.4.109.1.2	BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage.....	509
3.1.4.109.2	Elements.....	509
3.1.4.109.2.1	SetDefaultValuesForTypeDescriptor.....	510
3.1.4.109.2.2	SetDefaultValuesForTypeDescriptorResponse	510
3.1.4.109.3	Complex Types	510
3.1.4.109.4	Simple Types	510
3.1.4.109.5	Attributes	510
3.1.4.109.6	Groups.....	511
3.1.4.109.7	Attribute Groups.....	511
3.1.4.110	SetLobSystemDataByLobSystemId	511
3.1.4.110.1	Messages	512
3.1.4.110.1.1	BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage	512
3.1.4.110.1.2	BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage.....	513
3.1.4.110.2	Elements.....	513
3.1.4.110.2.1	SetLobSystemDataByLobSystemId	513
3.1.4.110.2.2	SetLobSystemDataByLobSystemIdResponse	513
3.1.4.110.3	Complex Types	514
3.1.4.110.4	Simple Types	514
3.1.4.110.5	Attributes	514
3.1.4.110.6	Groups.....	514
3.1.4.110.7	Attribute Groups.....	514
3.1.4.111	TypeDescriptorCreate	514
3.1.4.111.1	Messages	516

3.1.4.111.1.1	BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage	516
3.1.4.111.1.2	BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage	516
3.1.4.111.2	Elements	516
3.1.4.111.2.1	TypeDescriptorCreate	516
3.1.4.111.2.2	TypeDescriptorCreateResponse	517
3.1.4.111.3	Complex Types	517
3.1.4.111.4	Simple Types	517
3.1.4.111.5	Attributes	517
3.1.4.111.6	Groups	517
3.1.4.111.7	Attribute Groups	518
3.1.4.112	TypeDescriptorMergeXml	518
3.1.4.112.1	Messages	519
3.1.4.112.1.1	BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage	520
3.1.4.112.1.2	BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage	520
3.1.4.112.2	Elements	520
3.1.4.112.2.1	TypeDescriptorMergeXml	520
3.1.4.112.2.2	TypeDescriptorMergeXmlResponse	521
3.1.4.112.3	Complex Types	522
3.1.4.112.4	Simple Types	522
3.1.4.112.5	Attributes	522
3.1.4.112.6	Groups	522
3.1.4.112.7	Attribute Groups	522
3.1.4.113	TypeDescriptorReadXml	522
3.1.4.113.1	Messages	524
3.1.4.113.1.1	BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage	525
3.1.4.113.1.2	BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage	525
3.1.4.113.2	Elements	525
3.1.4.113.2.1	TypeDescriptorReadXml	525
3.1.4.113.2.2	TypeDescriptorReadXmlResponse	526
3.1.4.113.3	Complex Types	526
3.1.4.113.4	Simple Types	526
3.1.4.113.5	Attributes	527
3.1.4.113.6	Groups	527
3.1.4.113.7	Attribute Groups	527
3.1.4.114	Update	527
3.1.4.114.1	Messages	531
3.1.4.114.1.1	BusinessDataCatalogSharedService_Update_InputMessage	532
3.1.4.114.1.2	BusinessDataCatalogSharedService_Update_OutputMessage	532
3.1.4.114.2	Elements	532
3.1.4.114.2.1	Update	532
3.1.4.114.2.2	UpdateResponse	533
3.1.4.114.3	Complex Types	533
3.1.4.114.4	Simple Types	533
3.1.4.114.5	Attributes	533
3.1.4.114.6	Groups	533
3.1.4.114.7	Attribute Groups	533

3.1.4.115	WriteSlicedXml	533
3.1.4.115.1	Messages	535
3.1.4.115.1.1	BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage	535
3.1.4.115.1.2	BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage	535
3.1.4.115.2	Elements	535
3.1.4.115.2.1	WriteSlicedXml	536
3.1.4.115.2.2	WriteSlicedXmlResponse	536
3.1.4.115.3	Complex Types	536
3.1.4.115.4	Simple Types	536
3.1.4.115.5	Attributes	536
3.1.4.115.6	Groups	536
3.1.4.115.7	Attribute Groups	537
3.1.5	Timer Events	537
3.1.6	Other Local Events	537
4	Protocol Examples	538
4.1	Creating an LobSystem	538
4.2	Setting the Security Information of a MetadataObject	539
4.3	Reading the Security Information of a MetadataObject	541
4.4	Creating an Entity	542
4.5	Activating an Entity	544
4.6	Reading an Entity	546
4.7	Creating Properties for MetadataObjects	548
4.8	Adding Localized Names for MetadataObjects	549
4.9	Updating an Entity	551
4.10	Deleting an Entity	553
5	Security	555
5.1	Security Considerations for Implementers	555
5.2	Index of Security Parameters	555
6	Appendix A: Full WSDL	556
7	Appendix B: Full XML Schema	751
7.1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema	751
7.2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema	752
7.3	http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema	754
7.4	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema	783
7.5	Microsoft.BusinessData.SharePoint Schema	784
7.6	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific Schema	784
7.7	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants Schema	785
7.8	Microsoft.SharePoint.BusinessData Schema	785
7.9	http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema	795
7.10	http://schemas.microsoft.com/2003/10/Serialization/ Schema	796
7.11	http://schemas.datacontract.org/2004/07/System Schema	797
8	Appendix C: Product Behavior	799
9	Change Tracking	808
10	Index	809

1 Introduction

The Business Data Connectivity Web Service Protocol enables protocol clients to store and retrieve information about interfaces of business systems and annotations of these interfaces.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

access control entry (ACE): An entry in an access control list (ACL) that contains a set of user rights and a security identifier (SID) that identifies a principal for whom the rights are allowed, denied, or audited.

AccessChecker: A type of **MethodInstance** that can be called to retrieve the permissions that the calling security principal has for each of a collection of EntityInstances identified by the specified EntityInstanceIds.

Action: A type of **MetadataObject** that represents a URL that triggers the display or manipulation of data related to an Entity or EntityInstance. Actions are contained by an Entity. Actions contain **ActionParameters**.

ActionParameter: A type of **MetadataObject** that defines how to parameterize the URL of an **Action** with specific data about an EntityInstance. ActionParameters are contained by Actions.

ActivityTrackingFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value specifies a **GUID** for the current operation.

anonymous user: A user who presents no credentials when identifying himself or herself. The process for determining an anonymous user can differ based on the authentication protocol, and the documentation for the relevant authentication protocol should be consulted.

Association: A **MethodInstance** that enables the traversal and manipulation of a data model relationship between a set of source **Entities** and a single destination Entity. An Association can retrieve, associate, and disassociate EntityInstances of a destination Entity if given EntityInstances of other source Entities.

AssociationGroup: A **MetadataObject** that provides a logical grouping of **AssociationReferences**. All of the **Associations** that are identified by AssociationReferences in the group operate on a single physical mapping of source **EntityInstances** to destination EntityInstances in a line-of-business (LOB) system. All AssociationReferences in the group have the same AssociationReference sources and destinations, and collectively define the source and destination **Entities** of the AssociationGroup.

AssociationNavigator: A type of **MethodInstance** that can be called to retrieve destination **EntityInstances** that are associated with a single specified EntityInstance for each of the sources of the specified **Association**.

AssociationReference: An entry in an **AssociationGroup** that refers to an **Association**. The sources of the AssociationReference are the sources of the referenced Association, and the destination of the AssociationReference is the destination of the referenced Association. The opposite is true if the AssociationReference is defined to be a reverse reference, for Associations with one source Entity.

Associator: A type of **MethodInstance** that can be called to associate the specified, destination EntityInstance with a single specified EntityInstance for each of the sources of the specified **Association**.

Augmented Backus-Naur Form (ABNF): A modified version of Backus-Naur Form (BNF), commonly used by Internet specifications. ABNF notation balances compactness and simplicity with reasonable representational power. ABNF differs from standard BNF in its definitions and uses of naming rules, repetition, alternatives, order-independence, and value ranges. For more information, see [\[RFC5234\]](#).

base64 encoding: A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [\[RFC4648\]](#).

BatchingPositionFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value represents the current position of a batch, if the LOB system can return data in batches. When requesting a new batch, the filter can be populated with the position of the last batch.

BatchingTerminationFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be used to identify the last batch, if the LOB system can return data in batches.

BinarySecurityDescriptorAccessor: A type of **MethodInstance** that can be called to retrieve a sequence of bytes from a line-of-business (LOB) system. The system-specific byte sequence describes a set of security principals and the associated permissions that each security principal has for the EntityInstance identified by a specified EntityInstanceId.

BulkAssociatedIdEnumerator: A type of **MethodInstance** that can be called to retrieve pairs of EntityInstanceIds of source EntityInstances and EntityInstanceIds of corresponding destination EntityInstances for a specified **Association**. The specified EntityInstances are either a source or a destination in the specified Association.

BulkAssociationNavigator: A type of **MethodInstance** that can be called to retrieve destination EntityInstances that are associated with multiple specified EntityInstances for each of the sources of the specified **Association**.

BulkIdEnumerator: A type of **MethodInstance** that can be called to retrieve a set of EntityInstanceIds and a small subset of important Fields of the EntityInstances that are identified by the specified set of EntityInstanceIds.

BulkSpecificFinder: A type of **MethodInstance** that can be called to return a set of specific EntityInstances of an Entity, given a set of corresponding EntityInstanceIds.

Business Logic Module: A module that contains Business Logic software and is called to enforce data constraints or perform tasks that are loaded and executed in a host-specific run-time environment.

ChangedIdEnumerator: A type of **MethodInstance** that can be called to retrieve EntityInstanceIds of EntityInstances that were modified in a line-of-business (LOB) system after a specified time.

ComparisonFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. An LOB system can compare a ComparisonFilter value with the value of a specific Field of a set of EntityInstances and only those EntityInstances where the Field values pass the comparison test can be returned.

Coordinated Universal Time (UTC): A high-precision atomic time standard that approximately tracks Universal Time (UT). It is the basis for legal, civil time all over the Earth. Time zones around the world are expressed as positive and negative offsets from UTC. In this role, it is also referred to as Zulu time (Z) and Greenwich Mean Time (GMT). In these specifications, all references to UTC refer to the time at UTC-0 (or GMT).

Creator: A type of **MethodInstance** that can be called to create a new EntityInstance. The set of Fields that are required to create the EntityInstance is referred to as the Creator View.

DataClass: A type of **MetadataObject** that represents a type of a business data object obtained from a **line-of-business (LOB) system**. Instances of a DataClass have transient identity. DataClasses are contained by **LobSystems** and Methods.

DefaultValue: A value that is associated with a **TypeDescriptor**, in the context of a MethodInstance, and is used to instantiate Parameter values when calling native APIs in a line-of-business (LOB) system. The type of the value is consistent with the data type represented by the TypeDescriptor.

DeletedIdEnumerator: A type of **MethodInstance** that can be called to retrieve EntityInstanceIds of EntityInstances that were deleted from a line-of-business (LOB) system after the specified time.

Deleter: A type of **MethodInstance** that can be called to delete an EntityInstance with a specified EntityInstanceId.

Disassociator: A type of **MethodInstance** that can be called to remove an association between a specified destination EntityInstance and a single specified EntityInstance for each of the sources of a specified Association.

empty GUID: A 128-bit, 16-byte identification number that is represented by all zeros.

endpoint: A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

Entity: A type of **DataClass** that represents a type of business data object that is stored in a line-of-business (LOB) system and whose instances have a persistent EntityInstanceId.

EntityInstance: A set of **Field** values that have a unique identity that represents a specific instance of an Entity, and are stored in a line-of-business (LOB) system.

field: The data elements that constitute an **Entity** in a line-of-business (LOB) system.

FilterDescriptor: A type of **MetadataObject** that describes a normalized way of gathering input from users. A FilterDescriptor is defined by its type and the Method that contains it.

Finder: A type of **MethodInstance** that can be called to return a collection of zero or more EntityInstances of a specific Entity. Finder input is defined by the FilterDescriptors that are contained in the Method that contains the Finder.

GenericInvoker: A type of **MethodInstance** that can be called to perform a specific task in a line-of-business (LOB) system. GenericInvoker input and output is specific to the Method.

globally unique identifier (GUID): A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [\[RFC4122\]](#) or [\[C706\]](#) must be used for generating the **GUID**. See also universally unique identifier (UUID).

Hypertext Transfer Protocol (HTTP): An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

Hypertext Transfer Protocol Secure (HTTPS): An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [\[SSL3\]](#) and [\[RFC5246\]](#).

Identifier: The **Field** or **Fields** that define the Identity of an EntityInstance. Also referred to as Key.

IdEnumerator: A type of **MethodInstance** that can be called to return the **Field** values that represent the identity of EntityInstances of a specific Entity. IdEnumerator input is defined by the FilterDescriptors that are contained in the Method that contains the IdEnumerator.

InputFilter: A **FilterDescriptor** type that is used while calling an operation for a line-of-business (LOB) system. An LOB system can use the value of an InputFilter as additional arguments for the operation.

InputOutputFilter: A **FilterDescriptor** type that is used while calling an operation for a line-of-business (LOB) system. An LOB system can use the value of an InputOutputFilter as additional arguments for the operation, and additional results of an operation that cannot be captured by ReturnTypeDescriptor can be retrieved as a value of the InputOutputFilter.

language code identifier (LCID): A 32-bit number that identifies the user interface human language dialect or variation that is supported by an application or a client computer.

LastIdFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system in which data is to be returned in chunks. When requesting a new chunk, the filter can be populated with the EntityInstanceId of the last EntityInstance.

LimitFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be interpreted as a limit on the number of EntityInstances that are returned when the Method to which it belongs is called.

line-of-business (LOB) system: A software system that is used to store business data and can also contain business rules and business logic that support business processes.

LobSystem: A type of **MetadataObject** that represents a specific version of a line-of-business (LOB) system. An LOB system can be a database or a web service.

LobSystemInstance: A type of **MetadataObject** that represents a specific deployed instance of a **line-of-business (LOB) system**, as represented by a **LobSystem**. LobSystemInstances are contained by LobSystems. LobSystemInstance Properties describe how to connect to an instance of the LobSystem that contains them by providing information such as the server name, connection string, and authentication mode.

localized name: The descriptive name of a **MetadataObject** for a specific locale.

metadata store: A database that is stored on a back-end database server and contains all stored procedures and storage for the **MetadataObject** types.

MetadataCatalog: A **MetadataObject** that represents a Metadata partition.

MetadataModel: A collection of **MetadataObjects** that describes a line-of-business (LOB) system. It provides a framework for converting operations that are requested by a protocol client into requests that are specific to a given LOB system.

MetadataObject: An abstract data structure that consists of a set of attributes that represent a LobSystem, LobSystemInstance, DataClass, Entity, Method, MethodInstance, Parameter, TypeDescriptor, Identifier, FilterDescriptor, **Action**, **ActionParameter**, or **Association**.

MetadataObjectId: An attribute that uniquely identifies a **MetadataObject** that is stored in a metadata store.

Method: A type of **MetadataObject** that represents a piece of executable business logic in a line-of-business (LOB) system. Methods are contained by DataClasses and they contain Parameters.

MethodInstance: A type of **MetadataObject** that associates a normalized or stereotypical semantic with a Method that represents a native API in a line-of-business (LOB) system. MethodInstances identify which part of the data that is returned by a Method is relevant for the semantic by defining a **ReturnTypeDescriptor**. MethodInstances are contained by Methods.

Model: A **MetadataObject** that defines a set of references to a logically related set of Entities. Models are typically used to facilitate easy transfer into and out of Metadata stores.

Open Data Protocol (OData): A web protocol for querying and updating data specified in the OData protocol.

OutputFilter: A **FilterDescriptor** type that is used while calling an operation for a line-of-business (LOB) system. Additional results of an operation that cannot be captured by a ReturnPropertyDescriptor can be retrieved as a value of an OutputFilter.

PageNumberFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be the sequence number of the batch to return, if the LOB system can return data in batches.

Parameter: A type of **MetadataObject** that represents the formal parameters of a piece of business logic in a line-of-business (LOB) system. Parameters have a single root TypeDescriptor that defines the structure of the Parameter. They also have a Direction and a TypeReflector. Parameters are contained by Methods.

partition: An area within a shared services database, such as an area that isolates different tenants within a service, or the process of creating such an area in a shared services database.

PasswordCredentialFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system and can hold the password of an account that is defined in that system. When it is used in conjunction with a UsernameCredentialFilter, an LOB system can use the PasswordCredentialFilter value to restrict access to data for an account.

ReturnPropertyDescriptor: An attribute of a **MethodInstance**. It is the TypeDescriptor that identifies the portion of a Method's return or output Parameters to extract and return as the result of executing the MethodInstance. It defines the View of the EntityInstances returned, with its child TypeDescriptors denoting the Fields of the View.

root TypeDescriptor: A **TypeDescriptor** that is contained by a Parameter and has no parent TypeDescriptor. A Parameter can contain only one root TypeDescriptor.

Scalar: A type of **MethodInstance** that can be called to return a scalar value.

security principal: A unique entity that is identifiable through cryptographic means by at least one key. It frequently corresponds to a human user, but also can be a service that offers a resource to other security principals. Also referred to as principal.

Setting: A partition of a **metadata store**. It is used to store Properties, localized names, and **access control entries (ACEs)** for **MetadataObjects**.

SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses **XML** technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

SOAP action: The HTTP request header field used to indicate the intent of the **SOAP** request, using a **URI** value. See [\[SOAP1.1\]](#) section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a SOAP message to its recipient. See [\[SOAP1.2-1/2007\]](#) section 5.3 for more information.

SOAP fault: A container for error and status information within a SOAP message. See [\[SOAP1.2-1/2007\]](#) section 5.4 for more information.

SOAP header: A mechanism for implementing extensions to a SOAP message in a decentralized manner without prior agreement between the communicating parties. See [SOAP1.2-1/2007] section 5.2 for more information.

SpecificFinder: A type of **MethodInstance** that can be called to return a specific EntityInstance of a specific Entity given its EntityInstanceId. SpecificFinder input is defined and ordered by the Identifiers that are associated with the Entity that is associated with the Method that is associated with the SpecificFinder.

SsoTicketFilter: A **FilterDescriptor** type that is used in conjunction with a single sign-on (SSO) system to transmit an SSO ticket to a line-of-business (LOB) system.

StreamAccessor: A type of **MethodInstance** that can be called to retrieve a **Field** of an EntityInstance in the form of a data stream of bytes.

throttle configuration setting: A set of configuration information that supports algorithms that are implementation-specific and enforce time and space limits when executing operations against a **line-of-business (LOB) system**. Examples are: limiting the number of concurrent operations against the LOB system, stopping an operation after a specific amount of time, and rejecting operations that read or write more than a specific quantity of data.

TimeStampFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be a timestamp that specifies the earliest update to return, if the LOB system can return data that was updated after a specified time.

TypeDescriptor: A type of **MetadataObject** that describes a subset of the structure of a Parameter of a Method of the native API of a line-of-business (LOB) system. A TypeDescriptor can contain TypeDescriptors to form hierarchies that describe Parameters representing complex types, where the leaf TypeDescriptors describe simple or primitive types. A root TypeDescriptor, together with DefaultValues for leaf TypeDescriptors can be used to instantiate an instance of a Parameter value to send to a LOB system to execute a Method.

TypeReflector: A unit of business logic that converts data structures between the type system of the protocol client and the native type system of a line-of-business (LOB) system.

Unicode: A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The **Unicode** standard [[UNICODE5.0.0/2007](#)] provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

Uniform Resource Identifier (URI): A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [[RFC3986](#)].

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [[RFC1738](#)].

Updater: A type of **MethodInstance** that can be called to update an EntityInstance identified by a specified EntityInstanceId. The set of **Fields** that is required to update the EntityInstance is referred to as the Updater View.

UserContextFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value can be set automatically by a protocol client to the identity of the user who is calling the LOB system. This value can then be used by the LOB system to authorize and filter the results that are returned.

UserCultureFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value specifies the locale that is used by the application initiating the call.

UsernameCredentialFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system and can hold the user name of an account that is defined in that system. When used in conjunction with PasswordCredentialFilter, the LOB system can use its value to restrict access to data.

UserProfileFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system and whose value can be obtained by examining the current user's profile. The LOB system can use its value to filter the results that are returned.

View: A set of **Fields** of an **Entity**, or the schema of an Entity. An Entity can have several Views, each consisting of a different set of Fields, but all containing Identifier Fields. Views are associated with **MethodInstances** and define the shape of a MethodInstance's input or output.

web service: A unit of application logic that provides data and services to other applications and can be called by using standard Internet transport protocols such as **HTTP**, Simple Mail Transfer Protocol (SMTP), or File Transfer Protocol (FTP). Web services can perform functions that range from simple requests to complicated business processes.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

WildcardFilter: A **FilterDescriptor** type that is used when querying a line-of-business (LOB) system. Its value represents a pattern of regular and wildcard characters that is matched against the value of a particular **Field** of the set of EntityInstances. The LOB system returns only those EntityInstances whose Field values match the specified pattern.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [[WSDL](#)]. Also, an element that describes the data being exchanged between web service providers and clients.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

XML: The Extensible Markup Language, as described in [[XML1.0](#)].

XML namespace: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [RFC3986]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [[XMLNS-2ED](#)].

XML namespace prefix: An abbreviated form of an **XML namespace**, as described in [[XML](#)].

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by **XML** itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as defined in [[RFC2119](#)]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[ECMA-335] ECMA, "Common Language Infrastructure (CLI): Partitions I through VI", Standard ECMA-335, <http://www.ecma-international.org/publications/standards/Ecma-335.htm>

[MS-BDCMFFS] Microsoft Corporation, "[Business Data Connectivity Model File Format](#)".

[MS-NRTP] Microsoft Corporation, "[.NET Remoting: Core Protocol](#)".

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol](#)".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.rfc-editor.org/rfc/rfc2616.txt>

[RFC5234] Crocker, D., Ed., and Overell, P., "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008, <http://www.rfc-editor.org/rfc/rfc5234.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, <http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, <http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation 16 August 2006, edited in place 29 September 2006, <http://www.w3.org/TR/2006/REC-xml-20060816/>

1.2.2 Informative References

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol](#)".

[MSDN-DataContractKnownTypes] Microsoft Corporation, "Data Contract Known Types", <http://msdn.microsoft.com/en-us/library/ms730167.aspx>

[MSDN-DataContractSer] Microsoft Corporation, "DataContractSerializer Class", <https://docs.microsoft.com/en-us/dotnet/api/system.runtime.serialization.datacontractserializer>

[MSDN-SharePointSDK] Microsoft Corporation, "SharePoint Products and Technologies SDK: 2010 API Reference (Technical Preview)", July 2009, [http://msdn.microsoft.com/en-us/library/ee557253\(office.14\).aspx](http://msdn.microsoft.com/en-us/library/ee557253(office.14).aspx)

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.rfc-editor.org/rfc/rfc2818.txt>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

1.3 Protocol Overview (Synopsis)

Corporations have a variety of data stored in various **line-of-business (LOB) systems**. Typically, this data is accessible through the proprietary programming interface of enterprise software systems. It is ideal to provide access to such data through a set of normalized interfaces so that users do not have to learn system-specific or adapter-specific programming patterns for each system.

To facilitate this access, it is possible to store descriptions of the programmatic interface of the LOB systems by using data structures, such as **Methods**, **Parameters**, and **TypeDescriptors**, along with information about the LOB systems themselves, such as the server name, connection information, and steps on how to authenticate users, by using data structures, such as **LobSystem** and **LobSystemInstance**.

Methods can be considered to live in an **Entity** abstraction that represents a business data type, such as "customer" or "order". The LOB system interface definitions can then be transformed into normalized, stereotypical operations against Entities, such as "Read-An-Entity-Instance-By-Id", "Read-Entity-Instances", and "Check-Entity-Instance-Permissions" by annotating the LOB system interface descriptions with the annotations described by data structures, such as **MethodInstance**, **Identifier**, **FilterDescriptor**, and **Association**. These data structures, collectively called **MetadataObjects**, can be grouped into related collections called **MetadataModels** that describe a single LOB system. After a store of MetadataModels is made available, a runtime engine can use the store to convert a stereotypical normalized operation requested by an application that uses the protocol client into an LOB system-specific invocation programmatically.

This protocol enables a metadata client to create, read, update, and delete MetadataObjects in a **metadata store**. Additionally, for write operations, the protocol server provides validation and diagnostic errors, so that protocol clients can maintain the set of stored MetadataObjects in a state that satisfies certain semantic constraints for MetadataModels.

1.4 Relationship to Other Protocols

This protocol uses the **Simple Object Access Protocol (SOAP)** message protocol for formatting request and response messages, as described in [\[SOAP1.2/1\]](#), and [\[SOAP1.2/2\]](#). It transmits those

messages using the **Hypertext Transfer Protocol (HTTP)**, as described in [\[RFC2616\]](#), or the **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#).

The following diagram shows the underlying messaging and transport stack used by the protocol:

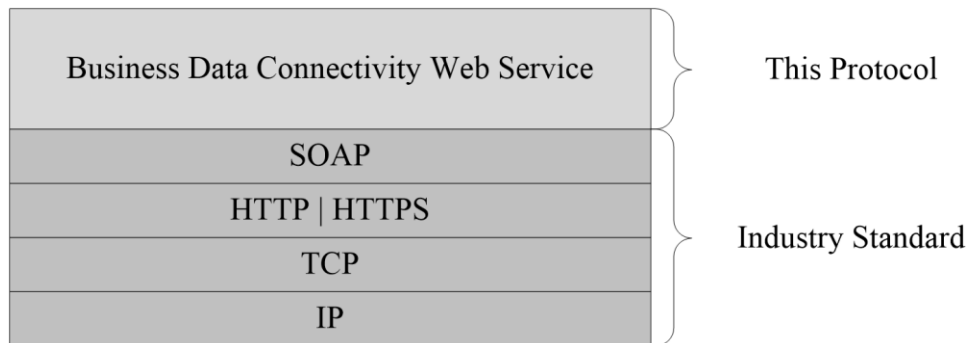


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint Uniform Resource Identifier (URI)**s that are known by protocol clients. The endpoint URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#). The protocol server endpoint is formed by appending `"/bdcservice.svc"` to the URL of the site. For example: `http://www.example.com/f0e82c9b92634081a8138bc38a967050/bdcservice.svc`

The protocol client obtains the requisite **ApplicationClassId** and **ApplicationVersion** values and the endpoint URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [\[MS-SPSTWS\]](#).

1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

Supported Transports: This protocol can be implemented by using transports that support sending **SOAP** messages, as described in section [2.1](#).

Protocol Versions: This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

2.1 Transport

Protocol servers MUST support **SOAP** over **HTTP** or **HTTPS**.

All protocol messages MUST be transported by using HTTP bindings at the transport level.

Protocol messages MUST be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2/1\]](#) section 5. Protocol server faults MUST be returned by using either HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2/1\]](#) section 5.4.

If the HTTPS transport is used, a server certificate MUST be deployed.

This protocol MAY transmit an additional SOAP header, the **ServiceContext** header, as specified in [\[MS-SPSTWS\]](#).

This protocol does not define any means for activating a protocol server or protocol client. The protocol server MUST be configured and begin listening in an implementation-specific way. In addition, the protocol client MUST know the format and transport that is used by the protocol server, for example, the SOAP format over an HTTP transport.

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [\[XMLSCHEMA1/2\]](#) and [\[XMLSCHEMA2/2\]](#), and **WSDL**, as specified in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific **XML namespace prefix** for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
q1	Microsoft.BusinessData.SharePoint	
q2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	
q4	http://schemas.datacontract.org/2004/07/System	
q5	Microsoft.SharePoint.BusinessData	
q9	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
ser	http://schemas.microsoft.com/2003/10/Serialization/	

Prefi x	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://www.microsoft.com/Office/2009/BusinessDataCatalog	
tns1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	
tns2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	
tns3	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific	
tns4	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants	
tns5	http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1/2] [XMLSCHEMA2/2]

2.2.2 Messages

This specification does not define any common **WSDL message** definitions.

2.2.3 Elements

This specification does not define any common **XML schema** element definitions.

2.2.4 Complex Types

The following sections specify the set of common XML Schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

The definitions of some complex types in this section make use of **Augmented Backus-Naur Form (ABNF)** representation as specified in [\[RFC5234\]](#).

Complex types designated as error complex types and returned as responses by the protocol server MUST be formatted as **SOAP faults**, as specified in [\[SOAP1.2/1\]](#) section 5.4.

This protocol specifies additional restrictions for the **Code**, **Reason**, and **Detail** elements for SOAP faults as follows:

- **Code**: MUST contain a **Value** element, which MUST be set to "s:Sender" and MAY contain a **Subcode** element.
- **Reason**: MUST contain a **Text** element, which MUST be ignored by the protocol client.
- **Detail**: MUST either contain the error complex type or be empty.

The following table summarizes the set of common **XML schema** complex type definitions defined by this specification. XML schema complex type definitions that are specific to a particular operation are described with the operation.

Complex type	Description
AccessControlEntryStruct	The AccessControlEntryStruct complex type contains information about an access control entry (ACE) .
AccessDeniedException	The AccessDeniedException error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store . This complex type MUST be included only as part of a SOAP fault as specified in section 2.2.4.
AccessDeniedExceptionState	The AccessDeniedExceptionState error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section 2.2.4.
ActionParameterStruct	The ActionParameterStruct complex type contains information about an ActionParameter .
ActionStruct	The ActionStruct complex type contains information about an Action .
AdministrationMetadataCatalogStruct	The AdministrationMetadataCatalogStruct contains information about a MetadataCatalog .
ArgumentException	The ArgumentException error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
ArgumentNullException	The ArgumentNullException error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
ArgumentOutOfRangeException	The ArgumentOutOfRangeException error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
ArrayOfAccessControlEntryStruct	The ArrayOfAccessControlEntryStruct complex type is a list of complex types, each of which represents an ACE.
ArrayOfAssociationStruct	The ArrayOfAssociationStruct complex type is a list of complex types, each of which represents an Association .
ArrayOfEntityStruct	The ArrayOfEntityStruct complex type is a list of complex types, each of which represents an Entity .
ArrayOfLobSystemStruct	The ArrayOfLobSystemStruct complex type is a list of complex types, each of which represents an LobSystem .
ArrayOfLocalizedNameStruct	The ArrayOfLocalizedNameStruct complex type is a list of complex types, each of which represents a localized name .
ArrayOfMethodInstanceStruct	The ArrayOfMethodInstanceStruct complex type is a list of complex types, each of which represents a

Complex type	Description
	MethodInstance .
ArrayOfModelStruct	The ArrayOfModelStruct complex type is a list of complex types, each of which represents a Model .
ArrayOfPropertyStruct	The ArrayOfPropertyStruct complex type is a list of complex types, each of which represents a Property .
ArrayOfstring	The ArrayOfstring complex type represents a list of xs:string as specified in [XMLSCHEMA2] .
ArrayOfTypeDescriptorStruct	The ArrayOfTypeDescriptorStruct complex type is a list of complex types, each of which represents a TypeDescriptor .
ArrayOfunsignedInt	The ArrayOfunsignedInt complex type represents a list of unsigned xs:unsignedInt as specified in [XMLSCHEMA2] .
AssociationGroupStruct	<p>The AssociationGroupStruct complex type contains information about an AssociationGroup. Each Association referenced by the AssociationReferences contained by the AssociationGroup is identified by the values in the same index of the following lists:</p> <ul style="list-style-type: none"> ▪ associationEntityNames ▪ associationEntityNamespaces ▪ associationNames ▪ associationIds
AssociationReferenceStruct	The AssociationReferenceStruct complex type contains information about an AssociationReference.
AssociationStruct	The AssociationStruct complex type MUST contain information about an Association. A namespace at any index of the sourceEntityNamespaces element of this complex type MUST be the namespace of the Entity whose name is at the same index of the sourceEntityNames element.
BdcException	The BdcException error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a SOAP fault , as specified in section 2.2.4.
BdcExceptionState	The BdcExceptionState error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
ComplexValueStruct	The ComplexValueStruct complex type MUST contain information about the data types related to the element containing this complex type.
ConcurrentModificationExceptionState	The ConcurrentModificationExceptionState error complex type contains information about a protocol-server-side error caused by concurrent modification of a MetadataObject . This complex type MUST only be included

Complex type	Description
	as part of a SOAP fault as specified in section 2.2.4.
DataClassStruct	The DataClassStruct complex type MUST contain information about a DataClass .
DefaultValueStruct	The DefaultValueStruct complex type contains details of a DefaultValue of a TypeDescriptor.
DuplicateMetadataObjectExceptionState	The DuplicateMetadataObjectExceptionState error complex type contains information about a protocol-server-side error caused by duplication of a MetadataObject. This complex type MUST only be included as part of a SOAP fault, as specified in section 2.2.4.
EntityStruct	The EntityStruct complex type contains information about an Entity.
ExceededMetadataObjectLimitExceptionState	The ExceededMetadataObjectLimitExceptionState error complex type contains information about a protocol-server-side error caused when a MetadataObject exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type MUST only be included as part of a SOAP fault as section 2.2.4.
Exception	The Exception error complex type contains information about a protocol-server-side error. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
FilterDescriptorStruct	The FilterDescriptorStruct complex type contains information about a FilterDescriptor .
IdentifierStruct	The IdentifierStruct complex type contains information about an Identifier .
InvalidMetadataObjectExceptionState	The InvalidMetadataObjectExceptionState error complex type contains information about a protocol-server-side error caused by invalid attributes of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4.
InvalidMetadataPropertyExceptionState	The InvalidMetadataPropertyExceptionState error complex type contains information about a protocol-server-side error caused by an invalid Property detected in the set of Properties of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4.
InvalidOperationException	The InvalidOperationException error complex contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
LobSystemInstanceStruct	The LobSystemInstanceStruct complex type contains information about an LobSystemInstance .
LobSystemStruct	The LobSystemStruct complex type contains information about an LobSystem.
LocalizedNameStruct	The LocalizedNameStruct complex type contains

Complex type	Description
	information about a localized name.
MetadataException	The MetadataException error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a MetadataModel constraint in the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4.
MetadataObjectNotFoundExceptionState	The MetadataObjectNotFoundExceptionState error complex type contains information about a protocol-server-side error caused when a requested MetadataObject is not found. This complex type MUST only be included as part of a SOAP fault, as specified in section 2.2.4.
MetadataObjectStruct	The MetadataObjectStruct complex type contains the attributes of the MetadataObject.
MethodInstanceStruct	The MethodInstanceStruct complex type contains information about a MethodInstance.
MethodStruct	The MethodStruct complex type contains information about a Method .
ModelStruct	The ModelStruct complex type contains information about a Model.
PackageFormatExceptionState	The PackageFormatExceptionState error complex type contains information about a protocol-server-side error caused when specified XML does not conform to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] or the MetadataModel contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] has invalid configuration of MetadataObjects or their attributes. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4.
ParameterStruct	The ParameterStruct complex type contains information about a Parameter .
PropertyStruct	The PropertyStruct complex type contains information about a Property .
ProxyGenerationResult	The ProxyGenerationResult complex type contains information about Business Logic Modules<1> .
SafetyNetStruct	The SafetyNetStruct complex type represents a single throttle configuration setting that encapsulates configuration information to support implementation-specific time-and-space-limiting algorithms in the protocol client when running operations against a line-of-business (LOB) system . For example, an implementation of the protocol that reads MetadataModels and uses them to run operations against an LOB system could limit the number of concurrent operations against the LOB system, abort an operation after a certain amount of time has expired, or reject operations that read or write more than a specific quantity of data.
TypeDescriptorStruct	The TypeDescriptorStruct complex type contains information about a TypeDescriptor.
Version	The Version complex type MUST contain information about

Complex type	Description
	the version of a DataClass.

2.2.4.1 AccessControlEntryStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AccessControlEntryStruct** complex type contains information about an **access control entry (ACE)**.

```
<xs:complexType name="AccessControlEntryStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="principalBinaryForm" nillable="true"
type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="principalDisplayName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
  </xs:sequence>
</xs:complexType>
```

principalBinaryForm: This element MUST be ignored by the protocol client.

principalDisplayName: This element MUST be ignored by the protocol client.

principalName: The encoded name of a **security principal**. This element MUST be present. The value of this element MUST be as specified for the **AttributeValue** of the **Security** element of an RSTR message, as specified in [\[MS-SPSTWS\]](#) section 2.2.2.2.

rights: The permissions available to a security principal to perform operations on or by using a **MetadataObject**. This element MUST be present. The value of this element MUST be the bitwise-OR operation of the values of the corresponding rights in the **BdcRights** enumeration (section [3.1.4.90.4.1](#)).

2.2.4.2 AccessDeniedException

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **AccessDeniedException** error complex type contains information about a protocol-server-side error caused by a violation of access control on the **metadata store**. This complex type MUST be included only as part of a **SOAP fault** as specified in section [2.2.4](#).

```
<xs:complexType name="AccessDeniedException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q2:BdcException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.3 AccessDeniedExceptionState

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **AccessDeniedExceptionState** error complex type contains information about a protocol-server-side error caused by a violation of access control on the **metadata store**. This complex type MUST be included only as part of a **SOAP fault** as specified in section [2.2.4](#).

```

<xs:complexType name="AccessDeniedExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q2:BdcExceptionState">
      <xs:sequence>
        <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

CurrentIdentity: The **security principal** in whose context the protocol client is operating when the violation of access control occurs. This element **MUST** be present.

SecurableObjectName: The name of the **MetadataObject** on which the access control violation occurs. This element **MUST** be present.

SecurableObjectTypeName: The type of **MetadataObject** on which the access control violation occurs. This element **MUST** be present.

2.2.4.4 ActionParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ActionParameterStruct** complex type contains information about an **ActionParameter**.

```

<xs:complexType name="ActionParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

actionId: The **MetadataObjectId** of the **Action** that contains this **ActionParameter**. The value of this element **MUST** be in the range 1-0x7ffffff.

index: The index of the **ActionParameter**. This index corresponds to the parameter in the command of the **Action** that contains this **ActionParameter**. The index values of **ActionParameters** that are contained by the same **Action** **SHOULD** <2> be greater than or equal to zero and less than the number of **ActionParameters** that are contained by the **Action**. The index values of **ActionParameters** **SHOULD** <3> be unique across all **ActionParameters** that are contained by the same **Action**.

2.2.4.5 ActionStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ActionStruct** complex type contains information about an **Action**.

```

<xs:complexType name="ActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">

```

```

<xs:extension base="q5:MetadataObjectStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
    <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
    <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

entityId: The **MetadataObjectId** of the **Entity** that contains the **Action**. The value of this element MUST be in the range 0-0x7fffffff.

imageUrl: The implementation-specific location of the resource that is used to represent the **Action** in the user interface (UI). The application that utilizes the protocol client uses the resource in the specified location to represent the **Action** in the UI, possibly along with the **localized name** of the **Action**.

isOpenedInNewWindow: Specifies whether the results of running an **Action** are presented in a new UI context. The value MUST be "true" if the results are displayed in a new UI context; otherwise it MUST be "false". The application that utilizes the protocol client uses this value as guidance on creating new UI context when the **Action** is run.

position: The order of an **Action** among the **Actions** of an **Entity**. The application that utilizes the protocol client uses this ordering as guidance in an implementation-specific algorithm that represents the **Actions** in the UI. This element MUST be present. This element MUST NOT be set to 0.

url: The implementation-specific parameterized command associated with the **Action**. The parameters of the command MUST correspond to **ActionParameters** of this **Action**. This element MUST be present.

2.2.4.6 AdministrationMetadataCatalogStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AdministrationMetadataCatalogStruct** contains information about a **MetadataCatalog**.

```

<xs:complexType name="AdministrationMetadataCatalogStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.7 ArgumentException

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArgumentException** error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type MUST be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```

<xs:complexType name="ArgumentException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q4:SystemException"/>
  </xs:complexContent>
</xs:complexType>

```

```
</xs:complexContent>
</xs:complexType>
```

2.2.4.8 ArgumentNullException

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArgumentNullException** error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type **MUST** be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```
<xs:complexType name="ArgumentNullException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q4:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.9 ArgumentOutOfRangeException

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArgumentOutOfRangeException** error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type **MUST** be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```
<xs:complexType name="ArgumentOutOfRangeException"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q4:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.10 ArrayOfAccessControlEntryStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAccessControlEntryStruct** complex type is a list of complex types, each of which represents an **ACE**.

```
<xs:complexType name="ArrayOfAccessControlEntryStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="q5:AccessControlEntryStruct"/>
  </xs:sequence>
</xs:complexType>
```

AccessControlEntryStruct: A complex type that represents an ACE.

2.2.4.11 ArrayOfAssociationStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationStruct** complex type is a list of complex types, each of which represents an **Association**.

```
<xs:complexType name="ArrayOfAssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true"
type="q5:AssociationStruct"/>
  </xs:sequence>
</xs:complexType>
```

AssociationStruct: A complex type that represents an **Association**.

2.2.4.12 ArrayOfEntityStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an **Entity**.

```
<xs:complexType name="ArrayOfEntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="q5:EntityStruct"/>
  </xs:sequence>
</xs:complexType>
```

EntityStruct: A complex type that represents an **Entity**.

2.2.4.13 ArrayOfLobSystemStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemStruct** complex type is a list of complex types, each of which represents an **LobSystem**.

```
<xs:complexType name="ArrayOfLobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="q5:LobSystemStruct"/>
  </xs:sequence>
</xs:complexType>
```

LobSystemStruct: A complex type that represents an **LobSystem**.

2.2.4.14 ArrayOfLocalizedNameStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLocalizedNameStruct** complex type is a list of complex types, each of which represents a **localized name**.

```
<xs:complexType name="ArrayOfLocalizedNameStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="q5:LocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>
```

LocalizedNameStruct: A complex type that represents a localized name.

2.2.4.15 ArrayOfMethodInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfMethodInstanceStruct** complex type is a list of complex types, each of which represents a **MethodInstance**.

```
<xs:complexType name="ArrayOfMethodInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="q5:MethodInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
```

MethodInstanceStruct: A complex type that represents a **MethodInstance**.

2.2.4.16 ArrayOfModelStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a **Model**.

```
<xs:complexType name="ArrayOfModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="q5:ModelStruct"/>
  </xs:sequence>
</xs:complexType>
```

ModelStruct: A complex type that represents a **Model**.

2.2.4.17 ArrayOfPropertyStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfPropertyStruct** complex type is a list of complex types, each of which represents a **Property**.

```
<xs:complexType name="ArrayOfPropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="q5:PropertyStruct"/>
  </xs:sequence>
</xs:complexType>
```

PropertyStruct: A complex type that represents a **Property**.

2.2.4.18 ArrayOfString

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfstring** complex type represents a list of **xs:string** as specified in [\[XMLSCHEMA2\]](#).

```

<xs:complexType name="ArrayOfstring" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

string: An element in the list.

2.2.4.19 ArrayOfTypeDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfTypeDescriptorStruct** complex type is a list of complex types, each of which represents a **TypeDescriptor**.

```

<xs:complexType name="ArrayOfTypeDescriptorStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="q5:TypeDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>

```

TypeDescriptorStruct: A complex type that represents a **TypeDescriptor**.

2.2.4.20 ArrayOfunsignedInt

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfunsignedInt** complex type represents a list of unsigned **xs:unsignedInt** as specified in [\[XMLSCHEMA2\]](#).

```

<xs:complexType name="ArrayOfunsignedInt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>

```

unsignedInt: An element in the list.

2.2.4.21 AssociationGroupStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationGroupStruct** complex type contains information about an **AssociationGroup**. Each **Association** referenced by the **AssociationReferences** contained by the **AssociationGroup** is identified by the values in the same index of the following lists:

- associationEntityNames
- associationEntityNamespaces
- associationNames
- associationIds


```

<xs:complexType name="AssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationIds" nillable="true" type="q9:ArrayOfunsignedInt"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

associationEntityNames: A list containing the names of **Entities** that contain the **Associations** referenced by the **AssociationReferences** contained by the **AssociationGroup**. If the corresponding **Entity** is not active, the values in this list **MUST** have at least 1 and at most 255 **Unicode** characters.

associationEntityNamespaces: A list containing the namespaces of **Entities** that contain the **Associations** referenced by the **AssociationReferences** contained by the **AssociationGroup**. If the corresponding **Entity** is not active, the values in this list **MUST** have at least 1 and at most 255 Unicode characters.

associationIds: A list containing the **MetadataObjectIds** of the **Associations** referenced by the **AssociationReferences** contained by the **AssociationGroup**. If the **Entity** containing the corresponding **Association** is active, the values in this list **SHOULD** [<4>](#) be in the range 1-0x7fffffff. Otherwise, the values **MUST** be zero.

associationNames: A list of names of **Associations** referenced by the **AssociationReferences** contained by the **AssociationGroup**. If the **Entity** containing the corresponding **Association** is not active, the values in this list **MUST** have at least 1 and at most 255 Unicode characters.

entityId: The **MetadataObjectId** of the **Entity** that contains the **AssociationGroup**. The value of this element **MUST** be in the range 1-0x7fffffff.

2.2.4.22 AssociationReferenceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationReferenceStruct** complex type contains information about an **AssociationReference**.

```

<xs:complexType name="AssociationReferenceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="_associationName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>

```

_associationName: The name of the **Association** referenced by the **AssociationReference**. The name MUST have at most 255 **Unicode** characters.<5>

_entityName: The name of the **Entity** containing the **Association** referenced by the **AssociationReference**. The name MUST have at most 255 Unicode characters.<6>

_entityNamespace: The namespace of the **Entity** containing the **Association** referenced by the **AssociationReference**. The namespace MUST have at most 255 Unicode characters.<7>

associationGroupId: The **MetadataObjectId** of the **AssociationGroup** that contains the **AssociationReference**. The value of this element MUST be in the range 1-0x7fffffff.

associationGroupObjectVersion: The object version of the **AssociationGroup**.

associationId: The **MetadataObjectId** of the **Association** referenced by the **AssociationReference**. The value of this element MUST be in the range 0-0x7fffffff.

id: The implementation-specific identifier of the **AssociationReference**.

isReverse: A value that specifies whether the source of the referenced **Association** is the destination of the containing **AssociationGroup** and the destination of the referenced **Association** is the source of the containing **AssociationGroup**. The following table describes possible values.

Value	Description
false	The sources of the referenced Association are the sources of the containing AssociationGroup and the destination of the referenced Association is the destination of the containing AssociationGroup .
true	The source of the referenced Association is the destination of the containing AssociationGroup and destination of the referenced Association is the source of the containing AssociationGroup . The referenced Association MUST have only one source.

partitionId: The **partition** of the **Association** referenced by the **AssociationReference**.

2.2.4.23 AssociationStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationStruct** complex type MUST contain information about an **Association**. A namespace at any index of the **sourceEntityNamespaces** element of this complex type MUST be the namespace of the **Entity** whose name is at the same index of the **sourceEntityNames** element.

```
<xs:complexType name="AssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MethodInstanceStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

associationGroupId: The **MetadataObjectId** of the **AssociationGroup** which the **Association** is referenced by. If the **Association** is referenced by an **AssociationGroup**, the value of this element MUST be the **MetadataObjectId** of the referencing **AssociationGroup**. Otherwise, the value of this element MUST be set to zero. The value of this element MUST be in the range 0-0x7ffffff.

destinationEntityName: The name of the **Association** destination of the **Association**. This element MUST be present. The value of this element MUST have at least 1 and at most 255 **Unicode** characters.

destinationEntityNamespace: The namespace of the **Association** destination of the **Association**. This element MUST be present. The value of this element MUST have at least 1 and at most 255 Unicode characters.

sourceEntityNames: The list of names of the **Association** sources of the **Association**. This element MUST be present. This list MUST contain at least one child element. Each name in this list of **Association** source names MUST have at least 1 and at most 255 Unicode characters.

sourceEntityNamespaces: The list of namespaces of the **Association** sources of the **Association**. This element MUST be present. This list MUST contain at least one child element. Each namespace in this list of **Association** source namespaces MUST have at least 1 and at most 255 Unicode characters.

2.2.4.24 BdcException

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>

The **BdcException** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the **metadata store**. This complex type MUST be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```

<xs:complexType name="BdcException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="http://schemas.datacontract.org/2004/07/System"
      base="q4:Exception"/>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.25 BdcExceptionState

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>

The **BdcExceptionState** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the **metadata store**. This complex type MUST be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```

<xs:complexType name="BdcExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
      type="xs:string"/>
    <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
      type="xs:string"/>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

```
</xs:sequence>
</xs:complexType>
```

InnerExceptionToStringed: The specific cause of the operation failure.

InnerExceptionTypeFullName: A name for the kind of violation that caused this fault. The client MUST ignore this value.

Message: A description of the violation.

ServerStackTrace: An implementation-specific representation of the location on the protocol server where the violation was detected.

2.2.4.26 ComplexValueStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ComplexValueStruct** complex type MUST contain information about the data types related to the element containing this complex type.

```
<xs:complexType name="ComplexValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
    <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true" type="xs:anyType"/>
    <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName"
nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

needsTypeReflectionResolution: Carries protocol client implementation-specific semantics. This value MUST NOT carry any semantic significance for the protocol server.

wcfMarshallableValue: Carries protocol client implementation-specific semantics. This value MUST NOT carry any semantic significance for the protocol server.

wcfMarshallableValueAssemblyQualifiedTypeName: Carries protocol client implementation-specific semantics. The value MUST NOT carry any semantic significance for the protocol server.

wcfMarshallableValueTypeName: Carries protocol client implementation-specific semantics. This value MUST NOT carry any semantic significance for the protocol server.

2.2.4.27 ConcurrentModificationExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **ConcurrentModificationExceptionState** error complex type contains information about a protocol-server-side error caused by concurrent modification of a **MetadataObject**. This complex type MUST only be included as part of a **SOAP fault** as specified in section [2.2.4](#).

```
<xs:complexType name="ConcurrentModificationExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.SharePoint.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```
</xs:complexContent>
</xs:complexType>
```

MetadataObjectId: The **MetadataObjectId** of the **MetadataObject** that was concurrently modified.

2.2.4.28 DataClassStruct

Namespace: Microsoft.SharePoint.BusinessData

The **DataClassStruct** complex type MUST contain information about a **DataClass**.

```
<xs:complexType name="DataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="active" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
        <xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q4:Version"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

active: Specifies whether the **DataClass** is active. The value of this element MUST be "true" if the **DataClass** is active; otherwise it MUST be "false".

lobSystemId: The **MetadataObjectId** of the **LOBSystem** that contains this **DataClass**.

modelId: This value MUST be ignored by the protocol client. This value MUST be ignored by the protocol server.

namespace: The namespace of the **DataClass**.

version: The version of the **DataClass**, as specified in section [2.2.4.54](#).

2.2.4.29 DefaultValueStruct

Namespace: Microsoft.SharePoint.BusinessData

The **DefaultValueStruct** complex type contains details of a **DefaultValue** of a **TypeDescriptor**.

```
<xs:complexType name="DefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodInstanceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

methodInstanceId: **MetadataObjectId** of the **MethodInstance** with which the **DefaultValue** is associated. This element MUST be present, and the value of this element MUST NOT be NULL.

methodName: The name of the **MethodInstance** with the specified **MetadataObjectId**. The value of this element MUST have at least 1 and at most 255 **Unicode** characters.

typeDescriptorId: The **MetadataObjectId** of the **TypeDescriptor** with which the **DefaultValue** is associated. This element MUST be present, and the value of this element MUST NOT be NULL.

2.2.4.30 DuplicateMetadataObjectExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **DuplicateMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by duplication of a **MetadataObject**. This complex type MUST only be included as part of a **SOAP fault**, as specified in section [2.2.4](#).

```
<xs:complexType name="DuplicateMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.SharePoint.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

DuplicateFieldName: The name of the attribute of the **MetadataObject** that was supposed to be unique, but was not.

DuplicateMetadataObjectName: The name of the duplicate **MetadataObject**.

2.2.4.31 EntityStruct

Namespace: Microsoft.SharePoint.BusinessData

The **EntityStruct** complex type contains information about an **Entity**.

```
<xs:complexType name="EntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:DataClassStruct">
      <xs:sequence>
        <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
        <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

cacheUsage: The **CacheUsage** (section [2.2.5.1](#)) of the **Entity**.

description: The description of the **Entity**.

estimatedInstanceCount: The estimated maximum number of instances of the **Entity**. The value of this element **MUST** be in the range 1-0x7fffffff.

2.2.4.32 ExceededMetadataObjectLimitExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **ExceededMetadataObjectLimitExceptionState** error complex type contains information about a protocol-server-side error caused when a **MetadataObject** exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type **MUST** only be included as part of a **SOAP fault** as section [2.2.4](#).

```
<xs:complexType name="ExceededMetadataObjectLimitExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.SharePoint.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="Limit" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Limit: The numerical limit that was exceeded.

2.2.4.33 Exception

Namespace: http://schemas.datacontract.org/2004/07/System

The **Exception** error complex type contains information about a protocol-server-side error. This complex type **MUST** be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```
<xs:complexType name="Exception" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"/>
  </xs:sequence>
  <xs:attribute ref="ser:FactoryType"/>
</xs:complexType>
```

ser:FactoryType: This specifies a factory class that can deserialize the type. The factory class **MUST** be part of the known types collection of the DataContractSerializer instance being used. For more information about known types, see [\[MSDN-DataContractKnownTypes\]](#). For more information about DataContractSerializer, see [\[MSDN-DataContractSer\]](#).

2.2.4.34 FilterDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **FilterDescriptorStruct** complex type contains information about a **FilterDescriptor**.

```
<xs:complexType name="FilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="filterType" type="tns1:FilterType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

filterField: The **field** operated on by the **FilterDescriptor**. This value MUST be either a path (**ReturnTypeDescriptorPath** as specified in [MS-BDCMFFS] section 2.1.3.31), NULL, or an empty string. This value is understood by the applications using the protocol client, and MUST NOT carry any significance for the protocol server.

filterType: The **FilterType** (section 2.2.5.4) of a **FilterDescriptor**.

methodId: The **MetadataObjectId** of the **Method** that contains the **FilterDescriptor**.

2.2.4.35 IdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

The **IdentifierStruct** complex type contains information about an **Identifier**.

```

<xs:complexType name="IdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

entityId: The **MetadataObjectId** of the **Entity** that contains the **Identifier**.

ordinalNumber: The sequence number for the **Identifier** among all **Identifiers** of an **Entity**.

typeName: The data type of the value corresponding to the **Identifier**. The value MUST be in the following table.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from 0 through 65,535.
System.UInt32	A number in the range from 0 through 4,294,967,295.
System.UInt64	A number in the range from 0 through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 1 A.D. to 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds.

Value	Description
System.TimeSpan	A duration in the range from negative 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 800 nanoseconds through positive 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 700 nanoseconds, with a resolution of 100 nanoseconds.
System.Single	A single-precision number in the range from -3.402823e38 to 3.402823e38.
System.Double	A double-precision number in the range from -1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN (not a number).
System.Decimal	A number in the range from -79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from 0 through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A GUID .
System.Boolean	A bit.

2.2.4.36 InvalidMetadataObjectExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **InvalidMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by invalid attributes of a **MetadataObject**. This complex type MUST only be included as part of a **SOAP fault** as specified in section [2.2.4](#).

```
<xs:complexType name="InvalidMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.SharePoint.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

InvalidFieldName: The name of the **MetadataObject** attribute that is invalid.

InvalidMetadataObjectId: The **MetadataObjectId** of the **MetadataObject** that has an invalid attribute.

InvalidMetadataObjectName: The name of the **MetadataObject** that has an invalid attribute.

2.2.4.37 InvalidMetadataPropertyExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **InvalidMetadataPropertyExceptionState** error complex type contains information about a protocol-server-side error caused by an invalid **Property** detected in the set of **Properties** of a **MetadataObject**. This complex type MUST only be included as part of a **SOAP fault** as specified in section [2.2.4](#).

```
<xs:complexType name="InvalidMetadataPropertyExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

InvalidPropertyName: The name of the **Property** that is invalid.

MetadataObjectName: The name of the **MetadataObject** that has an invalid **Property**.

2.2.4.38 InvalidOperationException

Namespace: <http://schemas.datacontract.org/2004/07/System>

The **InvalidOperationException** error complex contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```
<xs:complexType name="InvalidOperationException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q4:SystemException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.39 LobSystemInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **LobSystemInstanceStruct** complex type contains information about an **LobSystemInstance**.

```
<xs:complexType name="LobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem** that contains this **LobSystemInstance**.

2.2.4.40 LobSystemStruct

Namespace: Microsoft.SharePoint.BusinessData

The **LobSystemStruct** complex type contains information about an **LobSystem**.

```
<xs:complexType name="LobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="systemType" type="tns1:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

systemType: The **SystemType** (section [2.2.5.7](#)) of the **LobSystem**.

2.2.4.41 LocalizedNameStruct

Namespace: Microsoft.SharePoint.BusinessData

The **LocalizedNameStruct** complex type contains information about a **localized name**.

```
<xs:complexType name="LocalizedNameStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="vlu" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

lcid: The **language code identifier (LCID)** representing the locale of the localized name. This element **MUST** be present.

metadataObjectId: The **MetadataObjectId** of the **MetadataObject** that contains the localized name. This element **MUST** be present. The value of this element **MUST** be in the range 1-0x7fffffff. [<8>](#)

settingId: The **Setting** that contains the localized name. This element **MUST** be present. The value **MUST** be NULL if the Setting is the default Setting. The value **MUST NOT** be NULL if the Setting is not the default Setting.

vlu: The localized name of the **MetadataObject** in the locale specified with **lcid** element. This element **MUST** be present.

2.2.4.42 MetadataException

Namespace: Microsoft.BusinessData.SharePoint

The **MetadataException** error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a **MetadataModel** constraint in the **metadata store**. This complex type **MUST** be included only as part of a **SOAP fault**, as specified in section [2.2.4](#).

```
<xs:complexType name="MetadataException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
```

```

    <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
    <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

explicitMessage: Specifies if the error message is specific for the encountered problem or it is generic for the type of the problem encountered. If the error message is specific to the problem encountered, the value MUST be "true"; otherwise it MUST be "false".

innerExceptionToStringed: The detailed reason for the error.

innerExceptionTypeFullName: A name for the kind of violation that caused this fault. The protocol client MUST ignore this value.

message: A literal implementation-specific error message detailing the constraint violation.

metadataObjectTypeName: The type of **MetadataObject** being accessed when the error occurred.

serverStackTrace: The implementation-specific representation of the location on the protocol server where the error occurred.

2.2.4.43 MetadataObjectNotFoundExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **MetadataObjectNotFoundExceptionState** error complex type contains information about a protocol-server-side error caused when a requested **MetadataObject** is not found. This complex type MUST only be included as part of a **SOAP fault**, as specified in section [2.2.4](#).

```

<xs:complexType name="MetadataObjectNotFoundExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.SharePoint.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

SearchCriteria: The implementation-specific plain text informative criterion used to search for the **MetadataObject**.

2.2.4.44 MetadataObjectStruct

Namespace: Microsoft.SharePoint.BusinessData

The **MetadataObjectStruct** complex type contains the attributes of the **MetadataObject**.

```

<xs:complexType name="MetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>

```

```

<xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
<xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
<xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
</xs:sequence>
</xs:complexType>

```

id: The **MetadataObjectId** of the **MetadataObject**, if the **MetadataObject** already exists in the **metadata store**. Otherwise, this value MUST be zero. The value of this element MUST be in the range 0-0x7fffffff.

isCached: Specifies the frequency of use of a **MetadataObject** by the protocol client. Protocol clients can use this element as a recommendation on whether to cache a **MetadataObject** in memory. Whether the client considers a **MetadataObject** to be frequently used or not is left to its determination and is outside the scope of this protocol. The value MUST be in the following table.

Value	Description
false	The MetadataObject is infrequently used.
true	The MetadataObject is frequently used.

name: The name of the **MetadataObject**. This element MUST be present. The value of this element MUST have at least 1 and at most 255 **Unicode** characters.

objectVersion: The object version of the **MetadataObject**.

partitionId: The **partition** of the **MetadataObject**. This element MUST be present.

2.2.4.45 MethodInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **MethodInstanceStruct** complex type contains information about a **MethodInstance**.

```

<xs:complexType name="MethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

isDefault: Specifies whether the **MethodInstance** is the default among the **MethodInstances** of the same type that are contained by the **DataClass** that contains this **MethodInstance**. The value MUST be in the following table.

Value	Description
false	The MethodInstance is not the default.

Value	Description
true	The MethodInstance is the default.

methodId: The **MetadataObjectId** of the **Method** that contains the **MethodInstance**.

methodInstanceType: The type of the **MethodInstance**. This element MUST be present. The value of this element MUST NOT be NULL. The value MUST be a **MethodInstanceType** (section [2.2.5.5](#)).

returnTypeDescriptorId: The **MetadataObjectId** of the **ReturnPropertyDescriptor** of the **MethodInstance**. This element MUST be present.

2.2.4.46 MethodStruct

Namespace: Microsoft.SharePoint.BusinessData

The **MethodStruct** complex type contains information about a **Method**.

```
<xs:complexType name="MethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

entityId: The **MetadataObjectId** of the **Entity** that contains the **Method**.

isStatic: Specifies whether the **Method** is associated with an **EntityInstance**. The value MUST be in the following table.

Value	Description
false	The Method operates in the context of a specific EntityInstance .
true	The Method operates out of the context of a specific EntityInstance .

lobName: The name of the **line-of-business (LOB) system** operation that is represented by this **Method**. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, a LOB system operation named "GetCus_1" can be represented by a **Method** named "Get Customer". The **lobName** element of this **Method** needs to be set to "GetCus_1".

2.2.4.47 ModelStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ModelStruct** complex type contains information about a **Model**.

```

<xs:complexType name="ModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.48 PackageFormatExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **PackageFormatExceptionState** error complex type contains information about a protocol-server-side error caused when specified **XML** does not conform to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] or the **MetadataModel** contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] has invalid configuration of **MetadataObjects** or their attributes. This complex type **MUST** only be included as part of a **SOAP fault** as specified in section 2.2.4.

```

<xs:complexType name="PackageFormatExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q9:ArrayOfstring"/>
    <xs:element xmlns:q1="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="q1:MetadataException"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

Message: A description of the error.

ParseErrors: A list of error messages or informational messages about the specified XML.

SerializedInnerSystemException: An implementation-specific representation of additional information about the error.

ServerStackTrace: An implementation-specific representation of the location on the protocol server where the error occurred.

2.2.4.49 ParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ParameterStruct** complex type contains information about a **Parameter**.

```

<xs:complexType name="ParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

```
</xs:complexType>
```

direction: Specifies the direction of the **Parameter**.

methodId: Specifies the **MetadataObjectId** of **Method** that contains the **Parameter**.

ordinalNumber: An **integer** representing the index of the **Parameter** among all **Parameters** in the containing **Method**.

rootTypeDescriptorId: Specifies the **MetadataObjectId** of the **root TypeDescriptor** of the **Parameter**.

2.2.4.50 PropertyStruct

Namespace: Microsoft.SharePoint.BusinessData

The **PropertyStruct** complex type contains information about a **Property**.

```
<xs:complexType name="PropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

metadataObjectId: This element contains the **MetadataObjectId** of the **MetadataObject** that contains this **Property**.

name: This element contains the name of the **Property**. The value MUST be unique among the names of **Properties** in the specified **Setting** and the containing **MetadataObject**.

settingId: This element contains the **Setting** that contains the **Property**. The value MUST be NULL if the **Setting** is the default **Setting**. The value MUST NOT be NULL if the **Setting** is not the default **Setting**.

typeName: This element contains the implementation-specific name of the data type of the value of this **PropertyStruct**. The value of this **PropertyStruct** is specified in its base structure's **wcfMarshallableValue** element.

2.2.4.51 ProxyGenerationResult

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime

The **ProxyGenerationResult** complex type contains information about **Business Logic Modules**[<9>](#).

```
<xs:complexType name="ProxyGenerationResult" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
  </xs:sequence>
```



```
</xs:complexType>
```

compiledBytes: The bytes encoded with **base64 encoding** that constitute the **Business Logic Modules**.

fingerprint: An implementation-specific identifier of the **Business Logic Modules**. If the bytes that constitute two **Business Logic Modules** are identical and the fingerprint element was not previously set by the client, their **fingerprint** values returned by the server **MUST** be identical.

sourceCode: The value of this element **MUST** be NULL. The protocol client and the protocol server **MUST** ignore this value.

2.2.4.52 SafetyNetStruct

Namespace: Microsoft.SharePoint.BusinessData

The **SafetyNetStruct** complex type represents a single **throttle configuration setting** that encapsulates configuration information to support implementation-specific time-and-space-limiting algorithms in the protocol client when running operations against a **line-of-business (LOB) system**. For example, an implementation of the protocol that reads **MetadataModels** and uses them to run operations against an LOB system could limit the number of concurrent operations against the LOB system, abort an operation after a certain amount of time has expired, or reject operations that read or write more than a specific quantity of data.

```
<xs:complexType name="SafetyNetStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
    <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
    <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
    <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
    <xs:element
      xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
      minOccurs="0" name="throttleScope" type="tns3:ThrottleScope"/>
    <xs:element
      xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
      minOccurs="0" name="throttleType" type="tns3:ThrottleType"/>
  </xs:sequence>
</xs:complexType>
```

defaultLimit: The initial default value for the throttle configuration setting.

enabled: Specifies whether this throttle configuration setting is enabled. If this value is set to "true", the throttle configuration setting is enabled; if the value is set to "false", the throttle configuration setting is disabled.

maxLimit: The maximum value permissible for this throttle configuration setting.

proxyId: An implementation-specific non-empty **GUID** used to group the set of throttle configuration settings so that multiple instances of protocol clients can use the same protocol server and have their implementation limited by differing amounts. For example, a search crawler crawling an LOB can be enabled to make more simultaneous calls and query larger quantities of data than a Web server used by interactive users against the same LOB.

An **empty GUID** designates a fallback throttle configuration setting. For a given combination of **ThrottleScope** (section 2.2.5.8) and **ThrottleType** (section 2.2.5.9), the protocol server **MUST** use the fallback throttle configuration setting corresponding to the runtime values of **ThrottleScope** and **ThrottleType**, if a throttle configuration setting corresponding to the runtime values of **ThrottleScope**, **ThrottleType** and **ProxyId** does not exist.

throttleScope: The **ThrottleScope** (section 2.2.5.8) which specifies the type of **LobSystem** to which a throttle configuration setting is applied.

throttleType: The **ThrottleType (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific>)** of this throttle configuration setting.

2.2.4.53 TypeDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **TypeDescriptorStruct** complex type contains information about a **TypeDescriptor**.

```
<xs:complexType name="TypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
        <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
        <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

associationId: The **MetadataObjectId** of the **Association** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Association** contained by an active **Entity**, the value of this element MUST be the **MetadataObjectId** of the referenced **Association**. Otherwise, the value MUST be zero. The value of this element MUST be in the range 0-0x7fffffff.

associationReferenceEntityName: The name of the **Entity** that contains the **Association** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Association** of an **Entity** that is not active, the value MUST be the name of the **Entity** that contains the referenced **Association**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 **Unicode** characters.

associationReferenceEntityNamespace: The namespace of the **Entity** that contains the **Association** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Association** of an **Entity** that is not active, the value MUST be the namespace of the **Entity** that contains the

referenced **Association**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

associationReferenceName: The name of the **Association** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Association** of an **Entity** that is not active, the value MUST be the name of the referenced **Association**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

childrenContainRules: Indicates whether any descendant of the **TypeDescriptor** has rules. The value MUST be set to "true" if any descendant of the **TypeDescriptor** has rules. Otherwise, the value MUST be set to "false".

containsFilterDescriptor: Indicates whether the **TypeDescriptor** or any of its descendants has an associated **FilterDescriptor**. This value MUST be set to "true" if the **TypeDescriptor** has an associated **FilterDescriptor** or any of its descendants has an associated **FilterDescriptor**. Otherwise, this value MUST be set to "false".

containsIdentifier: Indicates whether the **TypeDescriptor** or any of its descendants references an **Identifier**. This value MUST be set to "true" if the **TypeDescriptor** references an **Identifier** or any of its descendants references an **Identifier**. Otherwise, the value MUST be set to "false".

containsReadOnly: Indicates whether the **TypeDescriptor** or any of its descendants has the **ReadOnly** flag set. This value MUST be set to "true" if the **TypeDescriptor** is set to read-only or any of its descendants has the **ReadOnly** flag set. Otherwise, the value MUST be set to "false".

filterDescriptorId: The **MetadataObjectId** of the **FilterDescriptor** associated with the **TypeDescriptor**. If a **FilterDescriptor** is associated with the **TypeDescriptor**, the value MUST be the **MetadataObjectId** of the associated **FilterDescriptor**. Otherwise, the value of this element MUST be set to zero. The value of this element MUST be in the range 0-0x7fffffff.

flags: The **TypeDescriptorFlags** (section [2.2.5.10](#)) of the **TypeDescriptor**.

identifierId: The **MetadataObjectId** of the **Identifier** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Identifier** of an active **Entity**, the value MUST be the **MetadataObjectId** of the referenced **Identifier**. Otherwise, the value MUST be set to zero. The value of this element MUST be in the range 0-0x7fffffff. This element MUST be present.

identifierReferenceEntityName: The name of the **Entity** that contains the **Identifier** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Identifier** of an **Entity** that is not active, the value MUST be the name of the **Entity** that contains the referenced **Identifier**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

identifierReferenceEntityNamespace: The namespace of the **Entity** that contains the **Identifier** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Identifier** of an **Entity** that is not active, the value MUST be the namespace of the **Entity** that contains the referenced **Identifier**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

identifierReferenceName: The name of the **Identifier** that is referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Identifier** of an **Entity** that is not active, the value MUST be the name of the referenced **Identifier**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

lobName: The name of the data structure that is represented by the **TypeDescriptor**.

parameterId: The **MetadataObjectId** of the **Parameter** that contains the **TypeDescriptor**.

parentTypeDescriptorId: The **MetadataObjectId** of the parent **TypeDescriptor** that contains the **TypeDescriptor**. If the **TypeDescriptor** is a **root TypeDescriptor**, the value MUST be set to zero.

Otherwise, the value MUST be the **MetadataObjectId** of the parent **TypeDescriptor** that contains the **TypeDescriptor**. The value of this element MUST be in the range 0-0x7fffffff.

serializedRules: Rules to apply to the values in the data structure corresponding to the **TypeDescriptor**. If there are no rules to be applied, the value MUST be NULL or the empty string ("")<10>. If there are rules to be applied, the value MUST be a rules structure. The following is the ABNF notation as specified in [RFC5234] for the rules structure.

```
rules = rule *( %x00 rule)

rule = convertRule / normalizeRule

convertRule = %x54 fromType HTAB toType CRLF Culture

normalizeRule = %x44 ( local / unspecified / UTC)

UTC = %x42

local = %x43

unspecified = %x44

fromType = AssemblyQualifiedName
toType = AssemblyQualifiedName
```

Culture: Implementation-specific<11> name of the culture.

AssemblyQualifiedName: The name of the data type of the value qualified with the module that contains it. The format MUST be as follows.

```
AssemblyQualifiedName = TypeName %x2C LibraryIdentifier %x2C VersionProperty %x2C
CultureProperty %x2C PublicKeyTokenProperty
```

LibraryIdentifier, VersionProperty, PublicKeyTokenProperty, and CultureProperty MUST be as specified in [MS-NRTP] section 2.2.1.3.

TypeName: The name of the data type of the value<12>. The format is as specified in [MS-NRTP] section 2.2.1.2.

The rules MUST be stored with their order of execution from left to right, where the leftmost rule is executed first. Occurrence of a **convertRule** element indicates that the protocol client MUST interpret this rule as a cast between **fromType** and **toType**. Occurrence of a **normalizeRule** element indicates that the protocol client MUST interpret this rule as converting the time zone of a time value to **Coordinated Universal Time (UTC)** from the time zone specified. The specified time zone values are indicated by values "UTC", "local", and "unspecified", which correspond to UTC time zone, local time zone, and UTC time zone without time zone information, respectively.

typeName: The implementation-specific identifier for the data type of the data structure that the **TypeDescriptor** represents. The value of this element MUST have at least 1 and at most 255 Unicode characters. The value of this element is mapped to a data type by the implementation-specific module associated with the **Parameter** that contains this **TypeDescriptor**. The module that can perform the mapping MUST be specified as follows:

- If the **Parameter** that contains this **TypeDescriptor** contains a **Property** with name "TypeReflectorTypeName" and type "System.String", the module specified by the identifier represented by the string **Property** value MUST be used for the purpose of mapping the value of the **typeName** element to a data type. The identifier MUST be the **AssemblyQualifiedName** in the following format described with ABNF notation as specified in [RFC5234]:

AssemblyQualifiedName = TypeName %x2C LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C PublicKeyTokenProperty

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [MS-NRTP] section 2.2.1.3.

TypeName: The name of the data type of the value<13>. The format is as specified in [MS-NRTP] section 2.2.1.2.

- If the previous condition is not met, and if the **LobSystem** that contains the **DataClass** containing the **Method** of the **Parameter** that contains this **TypeDescriptor** has type specified as "Custom", and if the module associated with the **LobSystem** for the purposes of communicating with the corresponding LOB system, which is identified by the value of the **LobSystem** contained **Property** with name "SystemUtilityTypeName" and type "System.String", the specified module MUST be used for the purpose of mapping the value of the **typeName** element to a data type.
- If the previous conditions are not met, an implementation-specific<14> module MUST be used.

2.2.4.54 Version

Namespace: http://schemas.datacontract.org/2004/07/System

The **Version** complex type MUST contain information about the version of a **DataClass**.

```
<xs:complexType name="Version" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="_Build" type="xs:int"/>
    <xs:element name="_Major" type="xs:int"/>
    <xs:element name="_Minor" type="xs:int"/>
    <xs:element name="_Revision" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

_Build: The third significant part of the version. This value MUST be non-negative.

_Major: The most significant part of the version. The value MUST be non-negative.

_Minor: The second significant part of the version. The value MUST be non-negative.

_Revision: The fourth and least significant part of the version. The value MUST be non-negative.

2.2.5 Simple Types

The following table summarizes the set of common **XML schema** simple type definitions defined by this specification. XML schema simple type definitions that are specific to a particular operation are described with the operation.

Simple type	Description
CacheUsage	The CacheUsage simple type specifies how the protocol client accesses EntityInstance data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache EntityInstance data, the protocol client MUST ignore this value.
char	The char simple type represents a Unicode character. This type MUST NOT be used by this protocol.

Simple type	Description
DirectionType	The DirectionType simple type specifies the direction of an argument represented by a Parameter for a line-of-business (LOB) system operation.
FilterType	The FilterType simple type specifies the type of the filter represented by the FilterDescriptor .
MethodInstanceType	The MethodInstanceType simple type contains information about the type of a MethodInstance .
PackageContents	The PackageContents simple type specifies a subset of the types of data contained by a MetadataModel .
SystemType	The SystemType simple type specifies the type of line-of-business (LOB) system that a LobSystem is representing.
ThrottleScope	The ThrottleScope simple type specifies the type of LobSystem to which a throttle configuration setting is applied.
ThrottleType	The ThrottleType simple type specifies the throttle configuration setting that is used to restrict operations performed on the line-of-business (LOB) system.
TypeDescriptorFlags	The TypeDescriptorFlags simple type contains information about the characteristics of the data stored in a data structure represented by a TypeDescriptor .

2.2.5.1 CacheUsage

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime

The **CacheUsage** simple type specifies how the protocol client accesses **EntityInstance** data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache **EntityInstance** data, the protocol client MUST ignore this value.

```
<xs:simpleType name="CacheUsage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Default"/>
    <xs:enumeration value="Online"/>
    <xs:enumeration value="Cached"/>
    <xs:enumeration value="Offline"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **CacheUsage** simple type.

Value	Meaning
Default	The protocol client MUST make an implementation-specific choice to use any one of the other behaviors listed in this table, based on its capabilities.
Online	The protocol client MUST bypass the EntityInstance data cache for all operations.
Cached	The protocol client MUST use the EntityInstance data cache to perform create, update, and delete operations. If the requested data is available in the EntityInstance data cache, the protocol client MUST use the data in the cache. Otherwise, the protocol client MUST bypass the EntityInstance data cache to obtain the data and put the data in the EntityInstance data cache for later use.
Offline	The protocol client MUST use the EntityInstance data cache to perform create, read, update, and

Value	Meaning
	delete operations.

2.2.5.2 char

Namespace: http://schemas.microsoft.com/2003/10/Serialization/

The **char** simple type represents a **Unicode** character. This type MUST NOT be used by this protocol.

```
<xs:simpleType name="char" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:int"/>
</xs:simpleType>
```

2.2.5.3 DirectionType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel

The **DirectionType** simple type specifies the direction of an argument represented by a **Parameter** for a **line-of-business (LOB) system** operation.

```
<xs:simpleType name="DirectionType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="In"/>
    <xs:enumeration value="Out"/>
    <xs:enumeration value="InOut"/>
    <xs:enumeration value="Return"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **DirectionType** simple type.

Value	Meaning
In	This argument is used to send data to the operation before the operation is executed.
Out	This argument is used to retrieve data from the operation after the operation is finished.
InOut	This argument is used to send data to the operation before the operation is executed and also to retrieve data from the operation after completion.
Return	This argument is the result of the operation.

2.2.5.4 FilterType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel

The **FilterType** simple type specifies the type of the filter represented by the **FilterDescriptor**.

```
<xs:simpleType name="FilterType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Comparison"/>
    <xs:enumeration value="LastId"/>
  </xs:restriction>
</xs:simpleType>
```



```

<xs:enumeration value="Limit"/>
<xs:enumeration value="PageNumber"/>
<xs:enumeration value="Password"/>
<xs:enumeration value="SsoTicket"/>
<xs:enumeration value="Timestamp"/>
<xs:enumeration value="UserContext"/>
<xs:enumeration value="Username"/>
<xs:enumeration value="UserProfile"/>
<xs:enumeration value="Wildcard"/>
<xs:enumeration value="Input"/>
<xs:enumeration value="Output"/>
<xs:enumeration value="InputOutput"/>
<xs:enumeration value="Batching"/>
<xs:enumeration value="BatchingTermination"/>
<xs:enumeration value="UserCulture"/>
<xs:enumeration value="ActivityId"/>
<xs:enumeration value="Sorting"/>
</xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **FilterType** simple type.

Value	Meaning
Comparison	Indicates that the protocol client MUST interpret the FilterDescriptor as a ComparisonFilter .
LastId	Indicates that the protocol client MUST interpret the FilterDescriptor as a LastIdFilter .
Limit	Indicates that the protocol client MUST interpret the FilterDescriptor as a LimitFilter .
PageNumber	Indicates that the protocol client MUST interpret the FilterDescriptor as a PageNumberFilter .
Password	Indicates that the protocol client MUST interpret the FilterDescriptor as a PasswordCredentialFilter .
SsoTicket	Indicates that the protocol client MUST interpret the FilterDescriptor as a SsoTicketFilter .
Timestamp	Indicates that the protocol client MUST interpret the FilterDescriptor as a TimeStampFilter .
UserContext	Indicates that the protocol client MUST interpret the FilterDescriptor as a UserContextFilter .
Username	Indicates that the protocol client MUST interpret the FilterDescriptor as a UsernameCredentialFilter .
UserProfile	Indicates that the protocol client MUST interpret the FilterDescriptor as a UserProfileFilter .
Wildcard	Indicates that the protocol client MUST interpret the FilterDescriptor as a WildcardFilter .
Input	Indicates that the protocol client MUST interpret the FilterDescriptor as an InputFilter .
Output	Indicates that the protocol client MUST interpret the FilterDescriptor as an OutputFilter .
InputOutput	Indicates that the protocol client MUST interpret the FilterDescriptor as an InputOutputFilter .
Batching	Indicates that the protocol client MUST interpret the FilterDescriptor as a

Value	Meaning
	BatchingPositionFilter.
BatchingTermination	Indicates that the protocol client MUST interpret the FilterDescriptor as a BatchingTerminationFilter.
UserCulture	Indicates that the protocol client MUST interpret the FilterDescriptor as a UserCultureFilter.
ActivityId	Indicates that the protocol client MUST interpret the FilterDescriptor as an ActivityTrackingFilter.
Sorting	Indicates that the protocol client MUST interpret the FilterDescriptor as a SortingFilter.

2.2.5.5 MethodInstanceType

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel>

The **MethodInstanceType** simple type contains information about the type of a **MethodInstance.**

```
<xs:simpleType name="MethodInstanceType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Finder"/>
    <xs:enumeration value="SpecificFinder"/>
    <xs:enumeration value="GenericInvoker"/>
    <xs:enumeration value="IdEnumerator"/>
    <xs:enumeration value="Scalar"/>
    <xs:enumeration value="AccessChecker"/>
    <xs:enumeration value="Creator"/>
    <xs:enumeration value="Updater"/>
    <xs:enumeration value="Deleter"/>
    <xs:enumeration value="ChangedIdEnumerator"/>
    <xs:enumeration value="DeletedIdEnumerator"/>
    <xs:enumeration value="AssociationNavigator"/>
    <xs:enumeration value="Associator"/>
    <xs:enumeration value="Disassociator"/>
    <xs:enumeration value="StreamAccessor"/>
    <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
    <xs:enumeration value="BulkSpecificFinder"/>
    <xs:enumeration value="BulkAssociatedIdEnumerator"/>
    <xs:enumeration value="BulkAssociationNavigator"/>
    <xs:enumeration value="BulkIdEnumerator"/>
    <xs:enumeration value="EventSubscriber"/>
    <xs:enumeration value="EventUnsubscriber"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **MethodInstanceType** simple type.

Value	Meaning
Finder	Indicates that the protocol client MUST interpret the MethodInstance as a Finder.
SpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a SpecificFinder This type of MethodInstance requires an input.
GenericInvoker	Indicates that the protocol client MUST interpret the MethodInstance as a GenericInvoker.

Value	Meaning
IdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as an IdEnumerator .
Scalar	Indicates that the protocol client MUST interpret the MethodInstance as a Scalar .
AccessChecker	Indicates that the protocol client MUST interpret the MethodInstance as an AccessChecker . This type of MethodInstance requires an input.
Creator	Indicates that the protocol client MUST interpret the MethodInstance as a Creator .
Updater	Indicates that the protocol client MUST interpret the MethodInstance as an Updater . This type of MethodInstance requires an input.
Deleter	Indicates that the protocol client MUST interpret the MethodInstance as a Deleter . This type of MethodInstance requires an input.
ChangedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a ChangedIdEnumerator . This type of MethodInstance requires an input.
DeletedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a DeletedIdEnumerator . This type of MethodInstance requires an input.
AssociationNavigator	Indicates that the protocol client MUST interpret the MethodInstance as an AssociationNavigator . This type of MethodInstance requires an input.
Associator	Indicates that the protocol client MUST interpret the MethodInstance as an Associator . This type of MethodInstance requires an input.
Disassociator	Indicates that the protocol client MUST interpret the MethodInstance as a Disassociator . This type of MethodInstance requires an input.
StreamAccessor	Indicates that the protocol client MUST interpret the MethodInstance as a StreamAccessor . This type of MethodInstance requires an input.
BinarySecurityDescriptorAccessor	Indicates that the protocol client MUST interpret the MethodInstance as a BinarySecurityDescriptorAccessor . This type of MethodInstance requires an input.
BulkSpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a BulkSpecificFinder . This type of MethodInstance requires an input.
BulkAssociatedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a BulkAssociatedIdEnumerator . This type of MethodInstance requires an input.
BulkAssociationNavigator	Indicates that the protocol client MUST interpret the MethodInstance as a BulkAssociationNavigator . This type of MethodInstance requires an input.
BulkIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a BulkIdEnumerator , This type of MethodInstance requires an input.
EventSubscriber	Indicates that the protocol client MUST interpret the MethodInstance as a EventSubscriber . This type of MethodInstance requires an input.
EventUnsubscriber	Indicates that the protocol client MUST interpret the MethodInstance as a EventUnsubscriber . This type of MethodInstance requires an input.

2.2.5.6 PackageContents

Namespace: Microsoft.SharePoint.BusinessData

The **PackageContents** simple type specifies a subset of the types of data contained by a **MetadataModel**.

```
<xs:simpleType name="PackageContents" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Model"/>
        <xs:enumeration value="LocalizedNames"/>
        <xs:enumeration value="Permissions"/>
        <xs:enumeration value="Properties"/>
        <xs:enumeration value="InlineProxies"/>
        <xs:enumeration value="All"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **PackageContents** simple type.

Value	Meaning
None	No data. This value is a composite that indicates that Model, LocalizedNames, Permissions, Properties, and InlineProxies were not specified.
Model	The MetadataObjects contained by the MetadataModel .
LocalizedNames	The localized names corresponding to the MetadataObjects contained by the MetadataModel .
Permissions	The ACEs corresponding to the MetadataObjects contained by the MetadataModel .
Properties	The Properties corresponding to the MetadataObjects contained by the MetadataModel .
InlineProxies	The Business Logic Modules associated with the LobSystems contained by the MetadataModel.
All	The MetadataObjects contained by the MetadataModel , along with their localized names, Properties , and ACEs, in addition to the Business Logic Modules associated with the LobSystems contained by the MetadataModel . This value is a composite that indicates that Model , LocalizedNames , Permissions , Properties , and InlineProxies were all specified.

2.2.5.7 SystemType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel

The **SystemType** simple type specifies the type of **line-of-business (LOB) system** that a **LobSystem** is representing.

```
<xs:simpleType name="SystemType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Database"/>
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:enumeration value="WebService"/>
    <xs:enumeration value="Custom"/>
    <xs:enumeration value="Wcf"/>
    <xs:enumeration value="DotNetAssembly"/>
    <xs:enumeration value="OData"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **SystemType** simple type.

Value	Meaning
Database	The represented line-of-business (LOB) system is a database.
WebService	The represented line-of-business (LOB) system is a Web service .
Custom	The represented line-of-business (LOB) system has business logic external to the protocol implementation that manages the connection and data transfer.
Wcf	The represented line-of-business (LOB) system is a service for which the endpoint URI, the binding, and the contract are specified.
DotNetAssembly	The represented line-of-business (LOB) system is a Business Logic Module . <15>
OData	The represented line-of-business (LOB) system is an OData service .

2.2.5.8 ThrottleScope

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific

The **ThrottleScope** simple type specifies the type of **LobSystem** to which a **throttle configuration setting** is applied.

```

<xs:simpleType name="ThrottleScope" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Global"/>
    <xs:enumeration value="Database"/>
    <xs:enumeration value="WebService"/>
    <xs:enumeration value="Wcf"/>
    <xs:enumeration value="Custom"/>
    <xs:enumeration value="OData"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **ThrottleScope** simple type.

Value	Meaning
Global	This setting is used globally, independent of the type of the LobSystem .
Database	This setting is used for LobSystems that have a SystemType (section 2.2.5.7) value of "Database".
WebService	This setting is used for LobSystems that have a SystemType (section 2.2.5.7) value of "WebService".

Value	Meaning
Wcf	The setting is used for LobSystems that have a SystemType (section 2.2.5.7) value of "Wcf".
Custom	This setting is used for LobSystems that have a SystemType (section 2.2.5.7) value of "Custom".
OData	The setting is used for LobSystems that have a SystemType (section 2.2.5.7) value of "OData".

2.2.5.9 ThrottleType

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific>

The **ThrottleType** simple type specifies the **throttle configuration setting** that is used to restrict operations performed on the **line-of-business (LOB) system**.

```
<xs:simpleType name="ThrottleType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Items"/>
    <xs:enumeration value="Size"/>
    <xs:enumeration value="Connections"/>
    <xs:enumeration value="Timeout"/>
    <xs:enumeration value="MetadataSize"/>
    <xs:enumeration value="ModelSize"/>
    <xs:enumeration value="MaxNumberOfModels"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **ThrottleType** simple type.

Value	Meaning
None	This throttle configuration setting is not used in any operations. The protocol client MUST ignore throttle configuration settings that have the ThrottleType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific) attribute set to "None".
Items	This throttle configuration setting is used to restrict the number of items retrieved from the LOB system.
Size	This throttle configuration setting is used to restrict the number of bytes of the data retrieved from the LOB system.
Connections	This throttle configuration setting is used to restrict the number of simultaneous connections opened to the LOB system.
Timeout	This throttle configuration setting is used to restrict the duration of a connection opened to the LOB system.
MetadataSize	This throttle configuration setting is used to restrict the size of the metadata returned by the LOB system.
ModelSize	This throttle configuration setting is used to restrict the size of the "BDC" model that can be imported by a user.
MaxNumberOfModels	This throttle configuration setting is used to restrict the number of "BDC" models that can be imported in a tenancy.

2.2.5.10 TypeDescriptorFlags

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel

The **TypeDescriptorFlags** simple type contains information about the characteristics of the data stored in a data structure represented by a **TypeDescriptor**.

```
<xs:simpleType name="TypeDescriptorFlags" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="CreatorField"/>
        <xs:enumeration value="UpdaterField"/>
        <xs:enumeration value="PreUpdaterField"/>
        <xs:enumeration value="IsCollection"/>
        <xs:enumeration value="ReadOnly"/>
        <xs:enumeration value="Significant"/>
        <xs:enumeration value="IsSortInput"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **TypeDescriptorFlags** simple type.

Value	Meaning
None	No flags exist.
CreatorField	This TypeDescriptor MUST be considered a field for calling a Creator .
UpdaterField	This TypeDescriptor MUST be considered a field for calling an Updater .
PreUpdaterField	This TypeDescriptor MUST be used to send the latest value received from the line-of-business (LOB) system corresponding to the field with the same name as this TypeDescriptor when calling an Updater .
IsCollection	This TypeDescriptor MUST be interpreted as a collection of data structures.
ReadOnly	The protocol client MUST prevent values in the data structures corresponding to this TypeDescriptor from being modified.
Significant	The protocol client MUST use the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison. When this flag is not set, the protocol client MUST ignore the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison.
IsSortInput	This protocol client MUST use the values in the data structure corresponding to this TypeDescriptor as the input for the SortingFilter . When this flag is not set on any TypeDescriptor , the SortingFilter MUST be ignored.

2.2.6 Attributes

This specification does not define any common **XML schema** attribute definitions.

2.2.7 Groups

This specification does not define any common **XML schema** group definitions.

2.2.8 Attribute Groups

This specification does not define any common **XML schema** attribute group definitions.

3 Protocol Details

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret HTTP status codes returned by the protocol server as specified in [\[RFC2616\]](#), section 10, Status Code Definitions.

This protocol enables protocol servers to notify protocol clients of application-level faults by using SOAP faults. Except where specified, these SOAP faults are not significant for interoperability, and protocol clients can interpret them in an implementation-specific manner.

This protocol enables protocol servers to perform implementation-specific authorization checks and notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults as specified previously in this section.

3.1 Server Details

All operations consist of a basic request-response pair, and the server treats each request as an independent transaction that is unrelated to any previous request.

In any operation request, the protocol client MAY [<16>](#) request that the protocol server perform additional security checks by including a **SOAP header** with Name "CameThroughRemoteAdminService", Namespace "Bdc", type "Bool", and value "true". The effect of including this header on server behavior is described for each operation in the following sections.

In any operation request, the protocol client MAY [<17>](#) request that the protocol server acknowledge the **security principal** in whose context it is operating as a privileged user by including a SOAP header with Name "IsTenantAdmin", Namespace "Bdc", type "Bool", and value "true". The protocol server MUST fulfill the request acting as though the privileged user were authorized to edit or set permissions on any **MetadataObject** required by the operation.

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

For this protocol, the protocol server maintains lists to store the attributes of each of the following data types:

- **AccessControlEntry**
- **Action**
- **ActionParameter**

- **Association**
- **AssociationGroup**
- **AssociationReference**
- **CacheVersionStamp**
- **DataClass**
- **DefaultValue**
- **Entity**
- **FilterDescriptor**
- **Identifier**
- **LobSystem**
- **LobSystemInstance**
- **LocalizedName**
- **MetadataObject**
- **Method**
- **MethodInstance**
- **Model**
- **Parameter**
- **Property**
- **ThrottleConfigurationSetting**
- **TypeDescriptor**

The implementations of the basic **Create**, **Read**, **Update**, and **Delete** stored procedures insert, read, update, or delete items in each of these lists in which the **MetadataObjectId** serves as the primary identifier.

The containment and reference relationships can be captured through additional lists that store the primary identifiers of the related data types.

The attributes and relationships of the data types are in the following descriptions.

Property

- Represents a **Property**.
- Has the following attributes: **metadataObjectId**, **name**, **settingId**, and **typeName**.
- No containment or referential relationships.

LocalizedName

- Represents a **localized name**.
- Has the following attributes: **lcid**, **metadataObjectId**, **settingId**, and **vlue**.

- No containment or referential relationships.

AccessControlEntry

- Represents an **ACE**.
- Has the following attributes: **principalBinaryForm**, **principalDisplayName**, **principalName**, and **rights**.
- No containment or referential relationships.

MetadataObject

- Represents a **MetadataObject**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, and **partitionId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.

Model

- Represents a **Model**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, and **partitionId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- References zero or more **DataClasses** and zero or more **Entities**.

LobSystem

- Represents a **LobSystem**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, and **systemType**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **DataClasses**, zero or more **Entities**, zero or more **LobSystemInstances**, and zero or more **Business Logic Modules**.

LobSystemInstance

- Represents a **LobSystemInstance**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, and **lobSystemId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **LobSystem**.

DataClass

- Represents a **DataClass**.
- Has the following attributes: **id**, **name**, **isCached**, **Version**, **objectVersion**, **partitionId**, **active**, **lobSystemId**, **modelId**, and **namespace**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **Methods**, and zero or more **MethodInstances**.
- Contained by exactly one **LobSystem**.

- At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

Entity

- Represents an **Entity**.
- Has the following attributes: **id**, **Name**, **isCached**, **Version**, **objectVersion**, **partitionId**, **active**, **lobSystemId**, **modelId**, **namespace**, **cacheUsage**, **description**, and **estimatedInstanceCount**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **Methods**, zero or more **MethodInstances**, zero or more **Identifiers**, zero or more **Actions**, and zero or more **AssociationGroups**.
- Contained by exactly one **LobSystem**.
- References an **Action** as its default **Action**.
- At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

Identifier

- Represents an **Identifier**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **entityId**, **ordinalNumber**, and **typeName**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **Entity**.

Method

- Represents a **Method**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **lobName**, **isStatic**, and **entityId**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **FilterDescriptors**, zero or more **Parameters**, zero or more **MethodInstances**, and zero or more **Associations**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.

MethodInstance

- Represents a **MethodInstance**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **methodId**, **methodInstanceType**, **returnTypeDescriptorId**, and **isDefault**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- References zero or one **TypeDescriptors**.
- Contained by exactly one **Method**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.

- If the **MethodInstance** has a **ReturnTypeDescriptor**, the **MethodInstance** references the **TypeDescriptor** that corresponds to the **ReturnTypeDescriptor**. Otherwise, the **MethodInstance** references no **TypeDescriptors**.

Association

- Represents an **Association**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **methodId**, **associationGroupId**, **destinationEntityName**, **destinationEntityNamespace**, **sourceEntityNames**, **sourceEntityNamespaces**, **methodInstanceType**, **returnTypeDescriptorId**, and **isDefault**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more **ACEs**.
- References zero or one **TypeDescriptors**.
- References two or more **Entities**.
- Contained by exactly one **Method**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.
- If the **Association** has a **ReturnTypeDescriptor**, the **Association** references the **TypeDescriptor** that corresponds to the **ReturnTypeDescriptor**. Otherwise, the **Association** references no **TypeDescriptors**.
- References the **Entity** that corresponds to the destination of the **Association**.
- References the **Entities** that correspond to the sources of the **Association**.
- Does not reference an **Entity** if that **Entity** is not a source or destination for the **Association**.
- The **MethodInstanceType** attribute is set to "AssociationNavigator", "Associator", "Disassociator", "BulkAssociationNavigator", or "BulkAssociatedIdEnumerator".

Parameter

- Represents a **Parameter**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **direction**, **partitionId**, **methodId**, **ordinalNumber**, and **rootTypeDescriptorId**.
- Contains zero or more **Properties**, zero or more localized names, zero or more **ACEs**, and zero or more **TypeDescriptors**.
- Contained by exactly one **Method**.
- If the **Parameter** contains one or more **TypeDescriptors**, exactly one **TypeDescriptor** is not contained by any other **TypeDescriptor**. The **TypeDescriptor** that is not contained by any other **TypeDescriptor** corresponds to the **root TypeDescriptor** of the **Parameter**.

TypeDescriptor

- Represents a **TypeDescriptor**.
- Has the following attributes: **id**, **name**, **isCached**, **objectversion**, **partitionId**, **associationId**, **associationReferenceEntityName**, **associationReferenceEntityNamespace**, **associationReferenceName**, **childrenContainRules**, **containsFilterDescriptor**, **containsIdentifier**, **containsReadOnly**, **filterDescriptorId**, **flags**, **identifierId**, **identifierReferenceEntityName**, **identifierReferenceEntityNamespace**,

identifierReferenceName, **lobName**, **parameterId**, **parentTypeDescriptorId**, **serializedRules**, and **typeName**.

- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **TypeDescriptors**, and zero or more **DefaultValues**.
- References zero or one **Identifiers**, zero or one **Associations**, and zero or one **FilterDescriptors**.
- If the **TypeDescriptor** references a **FilterDescriptor**, that **FilterDescriptor** references the **TypeDescriptor**.
- Contained by exactly one **Parameter** and zero or one **TypeDescriptor**.

FilterDescriptor

- Represents a **FilterDescriptor**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **filterField**, **filterType**, and **methodId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **Method**.
- References one or more **TypeDescriptors**.
- If the **FilterDescriptor** references a **TypeDescriptor**, that **TypeDescriptor** references the **FilterDescriptor**.

DefaultValue

- Represents a **DefaultValue**.
- Has the following attributes: **needsTypeReflectionResolution**, **wcfMarshallableValue**, **wcfMarshallableValueAssemblyQualifiedTypeName**, **wcfMarshallableValueTypeName**, **methodInstanceId**, **methodName**, and **typeDescriptorId**.
- Contained by exactly one **TypeDescriptor**.

AssociationGroup

- Represents an **AssociationGroup**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **associationEntityNames**, **associationEntityNamespaces**, **entityId**, **associationIds**, and **associationNames**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **AssociationReferences**.
- Contained by exactly one **Entity**.

AssociationReference

- Represents an **AssociationReference**.
- Has the following attributes: **_associationName**, **_entityName**, **_entityNamespace**, **associationGroupId**, **associationGroupObjectVersion**, **associationId**, **id**, **isReverse**, and **partitionId**.
- References exactly one **Association**.

- Contained by exactly one **AssociationGroup**.

Action

- Represents an **Action**.
- Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **entityId**, **imageUrl**, **isOpenedInNewWindow**, **position**, and **url**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **ActionParameters**.
- Contained by exactly one **Entity**.

ActionParameter

- Represents an **ActionParameter**.
- Has the following elements: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **actionId**, and **index**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **Action**.

CacheVersionStamp

- Has the following attributes: **cacheLine**, **counter**, **partitionId**, and **timestamp**.
- No containment or referential relationships.

ThrottleConfigurationSetting

- Has the following attributes: **defaultLimit**, **enabled**, **maxLimit**, **proxyId**, **throttleScope**, and **throttleType**.
- No containment or referential relationships.

The permissions that apply to a given object are specified by the ACEs it contains. If the given object does not contain any ACEs, the permission that applies to the object that contains the given object are used instead. If the given object is not contained by any other objects, then the protocol server can assume implementation-specific set of **security principals** have necessary permissions on the object.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The protocol client is associated with a metadata **partition** (referred to in the following sections as the "protocol client metadata partition") using an implementation-specific mechanism.

The definitions of some operations in this section make use of **ABNF** representation as specified in [\[RFC5234\]](#).

The specifications of the operations in this section identify the conditions under which the protocol server MUST respond with corresponding error complex types. In addition, if the protocol server encounters an error specific to its implementation, it MAY respond with any fault listed in the WSDL for its operation. If there is a fault listed in the WSDL for an operation but the error table for the operation does not contain the fault, the condition under which the fault is returned by the protocol server is implementation-specific. The responses MUST be formatted as **SOAP faults**, by using error complex types serialized as specified in section 2.2.4. The error complex types are described in the following table.

Error complex type	Condition
ArgumentException	The protocol server encountered an invalid argument value while performing implementation-specific operations.
ArgumentNullException	While performing implementation-specific operations, the protocol server encountered a NULL value for an argument that does not accept NULL values.
ArgumentOutOfRangeException	The protocol server encountered an argument with a value outside the range of acceptable values while performing implementation-specific operations.
BdcExceptionState	The protocol server encountered an unrecoverable error while performing implementation-specific operations, or encountered a violation of constraints on the metadata store .
InvalidOperationException	The protocol server attempted an implementation-specific operation that is invalid for the current state of the protocol server.
MetadataException	The protocol server discovered a violation of a syntactic or semantic constraint on a MetadataModel while performing implementation-specific operations.
PackageFormatExceptionState	In an implementation-specific operation, the protocol server encountered XML that does not conform to the format specified in [MS-BDCMFFS], or XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] that has invalid configuration of MetadataObjects or their attributes.

For the following operations, the protocol client can specify values for a subset of the elements of the complex types that inherit from the **MethodInstanceStruct** complex type, including **MethodInstanceStruct** itself. <18> The protocol server MUST NOT return a fault for this condition. Unless otherwise specified, the protocol client MUST specify the values of the **Id** and **PartitionId** elements of complex types when used as parameters in the following operations:

- **AddEntityToModel**
- **ClearLocalizedNames**
- **ClearProperties**
- **CopyAclAcrossChildren**
- **CopyAclToSetting**
- **DeleteNoCascade**
- **DeleteProxyAssemblyForLobSystem**

- **ExportPackage**
- **GetAccessControlEntries**
- **GetAllLocalizedNamesForMetadataObjectStruct**
- **GetAllPropertiesForMetadataObjectStruct**
- **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor**
- **GetFieldTypeDescriptorsByMethodInstance**
- **GetLobSystemDataByLobSystem**
- **GetTypeReflectorTypeNameForParameter**
- **ImportPackage**
- **ImportPackageWithProgress**
- **MetadataObjectCreate**
- **MetadataObjectMergeXml**
- **MetadataObjectReadXml**
- **MetadataObjectWriteXml**
- **ModelReadXml**
- **ReadSlicedXml**
- **RemoveEntityFromModel**
- **RemoveLocalizedName**
- **RemoveProperty**
- **SaveLocalizedName**
- **SaveProperty**
- **SetAccessControlEntries**
- **SetDefaultActionForEntity**
- **TypeDescriptorCreate**
- **TypeDescriptorMergeXml**
- **TypeDescriptorReadXml**

For the operations specified in the following table, if the operation succeeds, the protocol server MUST update the object versions of the corresponding **MetadataObjects** in the metadata store as follows:

- If the object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value [<19>](#), the object version MUST be set to zero.
- Otherwise, the object version SHOULD [<20>](#) be incremented by 1.

Operation	MetadataObjects
-----------	-----------------

Operation	MetadataObjects
Activate	The Entity specified by the entityStruct element.
AddAssociationReferenceToAssociationGroup	The AssociationGroup specified by the associationGroupStruct element.
BulkSwitchActiveOrValidate	The Entities specified by the entityStructs element.
Deactivate	The Entity specified by the entityStruct element.
DeleteAssociationReferenceFromAssociationGroup	The AssociationGroup that contains the AssociationReference specified by the associationReferenceStruct element.
Update	The MetadataObject specified by the metadataObjectStruct element.

The following table summarizes the list of operations as defined by this specification.

Operation	Description
Activate	The Activate operation activates the specified Entity.
AddAssociationReferenceToAssociationGroup	The AddAssociationReferenceToAssociationGroup operation creates the specified AssociationReference in the specified AssociationGroup.
AddEntityToModel	The AddEntityToModel operation adds a reference to the specified Entity to the specified Model .
AddThrottlingRule	The AddThrottlingRule operation adds the specified throttle configuration setting to the metadata store.
BulkSwitchActiveOrValidate	The BulkSwitchActiveOrValidate operation changes the active version of the specified set of Entities or validates the specified Entities for the purpose of changing the active versions and identifying related errors.
CheckPathInMethodInstances	The CheckPathInMethodInstances operation retrieves whether the specified path, which conforms to ReturnTypeDescriptorPath as specified in [MS-BDCMFFS] section 2.1.3.31, corresponds to a TypeDescriptor in a View of the MethodInstances of the specified type contained by the specified DataClass , along with the MetadataObjectId of one such MethodInstance , if one exists.
ClearLocalizedNames	The ClearLocalizedNames operation removes all localized names of the specified MetadataObject from the specified Setting .
ClearProperties	The ClearProperties operation removes all Properties of the specified MetadataObject from the specified Setting.
CopyAclAcrossChildren	The CopyAclAcrossChildren operation clears the ACEs of the descendent MetadataObjects of a specified MetadataObject and copies the ACEs of the specified MetadataObject to the descendent MetadataObjects . A given MetadataObject is a

Operation	Description
	<p>descendent of the specified MetadataObject if the MetadataObject that contains the given MetadataObject is also a descendent of the specified MetadataObject or the MetadataObject is contained by the specified MetadataObject.</p> <p>If the specified MetadataObject is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent MetadataObjects if the security principal in whose context the protocol client is operating is not authorized to edit the LobSystem.</p>
CopyAclAcrossChildrenForSetting	<p>The CopyAclAcrossChildrenForSetting operation clears the ACEs in a specified Setting on the descendent MetadataObjects of the specified MetadataObject and copies the ACEs in the specified Setting on the specified MetadataObject to the descendent MetadataObjects. A given MetadataObject is a descendent of the specified MetadataObject if the MetadataObject that contains the given MetadataObject is also a descendent of the specified MetadataObject or the MetadataObject is contained by the specified MetadataObject.</p> <p>If the specified MetadataObject is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent MetadataObjects if the security principal in whose context the protocol client is operating is not authorized to edit the LobSystem.</p>
CopyAclToSetting	<p>The CopyAclToSetting operation deletes the ACEs in the specified non-default Setting of the specified MetadataObject and copies the ACEs in the default Setting of the specified MetadataObject to the specified Setting of the specified MetadataObject.</p>
Deactivate	<p>The Deactivate operation sets an active version of an Entity to not active.</p>
Delete	<p>The Delete operation deletes the specified MetadataObject.</p>
DeleteAssociationReferenceFromAssociationGroup	<p>The DeleteAssociationReferenceFromAssociationGroup operation removes an AssociationReference from an AssociationGroup by deleting the AssociationReference.</p>
DeleteDefaultValueForTypeDescriptor	<p>The DeleteDefaultValueForTypeDescriptor operation deletes the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.</p>
DeleteNoCascade	<p>The DeleteNoCascade operation deletes the specified MetadataObject without deleting the MetadataObjects it references.</p>
DeleteProxyAssemblyForLobSystem	<p>The DeleteProxyAssemblyForLobSystem operation deletes a Business Logic Module associated with the specified LobSystem.</p>

Operation	Description
EntityCreate	The EntityCreate operation creates an Entity in the specified LobSystem. The operation MUST copy ACEs from the specified LobSystem to the created Entity . If a Model is specified, the operation MUST associate the created Entity with the specified Model . Otherwise, the created Entity is not referenced by any Model .
ExportPackage	<p>The ExportPackage operation retrieves an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> ▪ MetadataObjects contained by the specified MetadataModel if "Model" value is set for the packageContents element. The XML MUST conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. ▪ Localized names, Properties, and ACEs corresponding to MetadataObjects contained by the specified MetadataModel if "Model" value is not set for the packageContents element. The XML MUST conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28. <p>If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, and if the specified MetadataModel contains LobSystems that the security principal in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those LobSystems, and MUST NOT contain other MetadataObjects contained by MetadataObjects that are not contained in the result for this reason.</p>
GenerateProxyAssemblyForLobSystem	The GenerateProxyAssemblyForLobSystem operation forces the protocol server to create an implementation-specific Business Logic Module <22> for the specified LobSystem to connect to the LOB system described by the specified LobSystem . If a Business Logic Module is already available for the specified LobSystem , this operation MUST NOT create another Business Logic Module and MUST complete successfully.
GetAccessControlEntries	The GetAccessControlEntries operation retrieves the ACEs for the specified MetadataObject from the specified Setting. If there are no ACEs for the specified MetadataObject from the specified Setting and the value of the fallback element is set to "true", the protocol server MUST retrieve ACEs for the specified MetadataObject from the default Setting .
GetActionById	The GetActionById operation retrieves the specified Action .
GetActionParameterById	The GetActionParameterById operation retrieves the specified ActionParameter .
GetActionParametersForAction	The GetActionParametersForAction operation

Operation	Description
	retrieves the ActionParameters of the specified Action.
GetActionsForEntity	The GetActionsForEntity operation retrieves the Actions of the specified Entity.
GetAllLocalizedNames	The GetAllLocalizedNames operation retrieves all localized names of the specified MetadataObject.
GetAllLocalizedNamesForMetadataObjectStruct	The GetAllLocalizedNamesForMetadataObjectStruct operation retrieves all localized names of the specified MetadataObject for the specified Setting.
GetAllPartitionIds	The GetAllPartitionIds operation retrieves all distinct partition identifiers.
GetAllProperties	The GetAllProperties operation retrieves all Properties of the specified MetadataObject and the specified Setting.
GetAllPropertiesForMetadataObjectStruct	The GetAllPropertiesForMetadataObjectStruct operation retrieves all Properties of the specified MetadataObject from the specified Setting.
GetAssociationById	The GetAssociationById operation retrieves the Association with the specified MetadataObjectId.
GetAssociationGroupById	The GetAssociationGroupById operation retrieves the AssociationGroup with the specified MetadataObjectId.
GetAssociationGroupsForEntity	The GetAssociationGroupsForEntity operation retrieves the AssociationGroups of the Entity with the specified MetadataObjectId.
GetAssociationMembersInRole	The GetAssociationMembersInRole operation retrieves the source or destination Entities of the specified Association.
GetAssociationReferencesForAssociationGroup	The GetAssociationReferencesForAssociationGroup operation retrieves the AssociationReferences contained by the specified AssociationGroup.
GetAssociationsForDataClass	The GetAssociationsForDataClass operation retrieves the Associations that are contained by the specified DataClass.
GetAssociationsForEntityAndRole	The GetAssociationsForEntityAndRole operation retrieves the Associations that reference the specified Entity as Association source or Association destination.
GetAssociationsForMethod	The GetAssociationsForMethod operation retrieves the Associations that are contained by the specified Method .
GetCacheInvalidationRecordsSince	The GetCacheInvalidationRecordsSince operation retrieves the cache version stamps, that were modified after the specified time.
GetChildTypeDescriptorsForTypeDescriptor	The GetChildTypeDescriptorsForTypeDescriptor operation retrieves the TypeDescriptors contained by

Operation	Description
	the specified TypeDescriptor .
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor	The GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor operation retrieves the TypeDescriptors that reference Identifiers and are descendants of the specified TypeDescriptor . A TypeDescriptor is a descendent of the specified TypeDescriptor if the TypeDescriptor that contains the TypeDescriptor is also a descendent of the specified TypeDescriptor or the TypeDescriptor is contained by the specified TypeDescriptor . <23>
GetDataClassById	The GetDataClassById operation retrieves the DataClass with the specified MetadataObjectId.
GetDataClassesForSystem	The GetDataClassesForSystem operation retrieves DataClasses contained by the specified LobSystem.
GetDefaultValuesForTypeDescriptor	The GetDefaultValuesForTypeDescriptor operation retrieves the DefaultValues of the specified TypeDescriptor.
GetEntitiesForAssociationAndRole	The GetEntitiesForAssociationAndRole operation retrieves the Entities that perform the role of source or destination for the specified Association.
GetEntitiesForSystem	The GetEntitiesForSystem operation retrieves Entities of the specified LobSystem.
GetEntitiesLikeNameAndNamespace	The GetEntitiesLikeNameAndNamespace operation retrieves the Entities that match the specified wildcard patterns for name and namespace. An Entity matches the pattern specified by wildcardedName if, and only if, wildcardedName matches the name of the Entity , the localized name of the Entity with language code identifier (LCID) set to zero, or the localized name of the Entity with the LCID specified by callerCultureLcid . An Entity matches the pattern specified by wildcardedNamespace if, and only if, wildcardedNamespace matches the namespace of the Entity .
GetEntitiesReferencedByModelId	The GetEntitiesReferencedByModelId operation retrieves Entities that are referenced by the specified Model.
GetEntityById	The GetEntityById operation retrieves the Entity with the specified MetadataObjectId.
GetEntityCount	The GetEntityCount operation retrieves the number of Entities that are contained by the specified LobSystem.
GetEntityNameAndNamespacesForAssociationAndRole	The GetEntityNameAndNamespacesForAssociationAndRole operation retrieves the names and namespaces of Entities that are referenced by the specified Association. Only Entities in the specified association role of source or destination are returned.
GetEntityWithNameAndNamespace	The GetEntityWithNameAndNamespace operation

Operation	Description
	retrieves the active Entity with the specified name and namespace in the specified partition.
GetEntityWithNameAndNamespaceAndVersion	The GetEntityWithNameAndNamespaceAndVersion operation retrieves the Entity with the specified name, namespace, and version.
GetFieldTypeDescriptorsByMethodInstance	The GetFieldTypeDescriptorsByMethodInstance operation retrieves TypeDescriptors that correspond to fields of the MethodInstance with the specified name in the specified Entity.
GetFilterDescriptorById	The GetFilterDescriptorById operation retrieves the FilterDescriptor with the specified MetadataObjectId.
GetFilterDescriptorsForMethod	The GetFilterDescriptorsForMethod operation retrieves the FilterDescriptors contained by the specified Method.
GetIdentifierById	The GetIdentifierById operation retrieves the Identifier with the specified MetadataObjectId.
GetIdentifiersForEntity	The GetIdentifiersForEntity operation retrieves the Identifiers contained by the specified Entity.
GetImportProgress	The GetImportProgress operation retrieves the progress of an ImportPackageWithProgress operation, using the unique identifier provided by the client at the creation of the import operation.
GetLevelForTypeDescriptor	The GetLevelForTypeDescriptor operation retrieves the depth of the specified TypeDescriptor in the TypeDescriptor tree. The TypeDescriptor tree for a specified TypeDescriptor consists of the specified TypeDescriptor with depth zero. Any TypeDescriptor that is contained by a TypeDescriptor in the TypeDescriptor tree is also in the tree with depth 1, plus the depth of the containing TypeDescriptor .
GetLobSystemAllAssembliesBytes	The GetLobSystemAllAssembliesBytes operation retrieves the Business Logic Modules associated with the specified LobSystem if the systemType element of the specified LobSystem is not set to "Custom". If the systemType element of the specified LobSystem is set to "Custom", the behavior of this operation is implementation-specific<24>.
GetLobSystemById	The GetLobSystemById operation retrieves the LobSystem with the specified MetadataObjectId.
GetLobSystemByName	The GetLobSystemByName operation retrieves the specified LobSystem.
GetLobSystemDataByLobSystem	The GetLobSystemDataByLobSystem operation retrieves Business Logic Modules<25> associated with the specified LobSystem.
GetLobSystemInstanceById	The GetLobSystemInstanceById operation retrieves the LobSystemInstance with the specified MetadataObjectId.

Operation	Description
GetLobSystemInstancesForLobSystem	The GetLobSystemInstancesForLobSystem operation retrieves the list of LobSystemInstances of the specified LobSystem. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the LobSystemInstances that the security principal in whose context the protocol client is operating is authorized to read<26> that are also contained by the specified LobSystem are retrieved.
GetLobSystemProxyAssemblyBytesByLobSystemId	The GetLobSystemProxyAssemblyBytesByLobSystemId operation retrieves the implementation-specific Business Logic Module<27> associated with the specified LobSystem.
GetLobSystemsLikeName	<p>The GetLobSystemsLikeName operation retrieves the LobSystems that match the specified wildcard pattern.</p> <p>If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the LobSystems that the security principal in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.</p> <p>A LobSystem matches the wildcard pattern specified by searchLikeName if any of the following conditions is true:</p> <ul style="list-style-type: none"> ▪ The searchLikeName matches the name of the LobSystem. ▪ The searchLikeName matches the localized name of the LobSystem and the LobSystem's localized name has its language code identifier (LCID) set to zero or set to the LCID specified by callerCultureLcid.
GetLobSystemsReferencedByEntitiesAssociatedWithModel	The GetLobSystemsReferencedByEntitiesAssociatedWithModel operation retrieves the LobSystems referenced by Entities associated with the specified Model. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the LobSystems that the security principal in whose context the protocol client is operating is authorized to read<28> that are also referenced by Entities associated with the specified Model are retrieved.
GetMethodById	The GetMethodById operation retrieves the Method with the specified MetadataObjectId.
GetMethodInstanceById	The GetMethodInstanceById operation retrieves the MethodInstance with the specified MetadataObjectId.
GetMethodInstancesForDataClass	The GetMethodInstancesForDataClass operation retrieves the MethodInstances contained by the Methods contained by the specified DataClass.
GetMethodInstancesForMethod	The GetMethodInstancesForMethod operation retrieves the MethodInstances contained by the

Operation	Description
	specified Method.
GetMethodsForDataClass	The GetMethodsForDataClass operation retrieves the Methods contained by the specified DataClass.
GetModelById	The GetModelById operation retrieves the Model with the specified MetadataObjectId.
GetModelByName	The GetModelByName operation retrieves the specified Model.
GetModelsByEntityId	The GetModelsByEntityId operation retrieves the Models that reference the specified Entity.
GetModelsByName	<p>The GetModelsByName operation retrieves the Models that match the specified wildcard pattern. A Model matches the wildcard pattern specified by wildcardedName if any of the following conditions is true:</p> <ul style="list-style-type: none"> ▪ WildcardedName matches the name of the Model. ▪ WildcardedName matches the localized name of the Model and the model's localized name has its LCID set to zero or set to the LCID specified by callerCultureLcid.
GetParameterById	The GetParameterById operation retrieves the Parameter with the specified MetadataObjectId.
GetParametersForMethod	The GetParametersForMethod operation retrieves the Parameters of the specified Method.
GetRootTypeDescriptorForParameter	The GetRootTypeDescriptorForParameter operation retrieves the root TypeDescriptor of the specified Parameter.
GetServiceApplicationId	The GetServiceApplicationId operation retrieves the unique implementation-specific identifier of a metadata store.
GetSystemUtilityTypeNameForLobSystem	The GetSystemUtilityTypeNameForLobSystem operation retrieves the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.
GetThrottlingRules	The GetThrottlingRules operation retrieves all throttle configuration settings used by the protocol server.
GetTypeDescriptorById	The GetTypeDescriptorById operation retrieves the TypeDescriptor with the specified MetadataObjectId.
GetTypeDescriptorsByNameAndLevelForParameter	The GetTypeDescriptorByNameAndLevelForParameter operation SHOULD<29> retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a TypeDescriptor is defined as follows:

Operation	Description
	<ul style="list-style-type: none"> ▪ The level of the root TypeDescriptor is set to zero ("0"). ▪ The level of the specified TypeDescriptor is 1 plus the level of the TypeDescriptor containing the specified TypeDescriptor.
GetTypeDescriptorsForFilterDescriptor	The GetTypeDescriptorsForFilterDescriptor operation retrieves TypeDescriptors referenced by the specified FilterDescriptor.
GetTypeReflectorTypeNameForParameter	The GetTypeReflectorTypeNameForParameter operation retrieves the implementation-specific name of the type of the TypeReflector of the specified Parameter.
GetXmlSchemaForView	The GetXmlSchemaForView operation is obsolete and MUST NOT be used.
HaveRights	The HaveRights operation retrieves whether the security principal in whose context the protocol client is operating has the specified permission on the specified MetadataObject based on the permissions specified by the ACEs in the specified Setting associated with the specified MetadataObject .
ImportPackage	<p>The ImportPackage operation creates the following objects in the metadata store:</p> <ul style="list-style-type: none"> ▪ MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and ACEs, if the "Model" value is specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.1.3.34. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem, along with Properties, localized names, and ACEs of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects, and along with the Properties, localized names, and ACEs of the ignored MetadataObjects. ▪ Localized names, Properties, and ACEs corresponding to MetadataObjects contained by the specified MetadataModel, if the "Model" value is not specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business

Operation	Description
	Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.2.3.28.
ImportPackageWithProgress	<p>The ImportPackageWithProgress operation creates the following objects in the metadata store:</p> <ul style="list-style-type: none"> ▪ MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and ACEs, if the "Model" value is specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem along with Properties, localized names, and ACEs of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects, and along with the Properties, localized names, and ACEs of the ignored MetadataObjects. ▪ Localized names, Properties, and ACEs corresponding to MetadataObjects contained by the specified MetadataModel, if the "Model" value is not specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28. <p>The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the GetImportProgress operation with the specified identifier.</p>
IsMethodInstantiated	The IsMethodInstantiated operation checks whether the specified Method contains at least one MethodInstance.
IsParameterReferencedByMethodInstance	The IsParameterReferencedByMethodInstance operation checks whether the specified Parameter contains any TypeDescriptor that is the ReturnPropertyDescriptor of any MethodInstance contained by the Method containing the Parameter .
MetadataObjectCreate	The MetadataObjectCreate operation creates a MetadataObject in the metadata store. If the specified MetadataObject is a MetadataCatalog and another MetadataCatalog with the same partition as the

Operation	Description
	<p>specified MetadataCatalog already exists, this operation MUST NOT change the state of the data in the metadata store <30>.</p>
<p>MetadataObjectMergeXml</p>	<p>The MetadataObjectMergeXml operation merges the Properties, localized names, and ACEs contained by the specified MetadataModel into the existing MetadataObjects in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to XML section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> ▪ An Action element, as specified in [MS-BDCMFFS] section 2.2.3.3. ▪ An ActionParameter element, as specified in [MS-BDCMFFS] section 2.2.3.4. ▪ An Association element, as specified in [MS-BDCMFFS] section 2.2.3.7. ▪ An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.2.3.8. ▪ An Entity element, as specified in [MS-BDCMFFS] section 2.2.3.11. ▪ A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.2.3.12. ▪ An Identifier element, as specified in [MS-BDCMFFS] section 2.2.3.14. ▪ A LobSystem element, as specified in [MS-BDCMFFS] section 2.2.3.17. ▪ A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.2.3.18. ▪ A Method element, as specified in [MS-BDCMFFS] section 2.2.3.24. ▪ A MethodInstance element, as specified in [MS-BDCMFFS] section 2.2.3.25. ▪ A Model element, as specified in [MS-BDCMFFS] section 2.2.3.28. ▪ A Parameter element, as specified in [MS-BDCMFFS] section 2.2.3.29.
<p>MetadataObjectReadXml</p>	<p>The MetadataObjectReadXml operation creates MetadataObjects in the metadata store, optionally along with their Properties, localized names, and ACEs contained by the specified MetadataModel <31>. This operation creates Properties, localized names, and ACEs for the default Setting. The operation also creates a default localized name for the specified MetadataModel, such that the vlue element, as specified in section 2.2.4.41, contains the name of the root element of the specified MetadataModel. If the</p>

Operation	Description
	<p>same MetadataObject exists on the server, the MetadataObjectReadXml operation will ignore the MetadataObject specified in the XML representing the MetadataModel when the MetadataObject contains no properties. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> ▪ An Action element, as specified in [MS-BDCMFFS] section 2.1.3.3. ▪ An ActionParameter element, as specified in [MS-BDCMFFS] section 2.1.3.4. ▪ An Association element, as specified in [MS-BDCMFFS] section 2.1.3.7. ▪ An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.1.3.8. ▪ An Entity element, as specified in [MS-BDCMFFS] section 2.1.3.16. ▪ An Identifier element, as specified in [MS-BDCMFFS] section 2.1.3.19. ▪ A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.1.3.17. ▪ A LobSystem element, as specified in [MS-BDCMFFS] section 2.1.3.23. ▪ A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.1.3.24. ▪ A Method element, as specified in [MS-BDCMFFS] section 2.1.3.30. ▪ A MethodInstance element, as specified in [MS-BDCMFFS] section 2.1.3.31. ▪ A Parameter element, as specified in [MS-BDCMFFS] section 2.1.3.37.
MetadataObjectWriteXml	<p>The MetadataObjectWriteXml operation is used to retrieve an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> ▪ MetadataObjects contained by the MetadataModel along with their Properties, localized names and ACEs, if "Model" value is specified for the packageContents element. The XML MUST conform to [MS-BDCMFFS] section 2.1. ▪ Localized names, Properties, and ACEs corresponding to MetadataObjects contained by the MetadataModel, if "Model" value is not specified for the packageContents element. The XML MUST conform to [MS-BDCMFFS] section 2.2. <p>The MetadataModel used for this operation MUST contain the specified MetadataObject, and other</p>

Operation	Description
	<p>MetadataObjects that are contained by the MetadataModel; it MUST NOT contain any other MetadataObjects.</p> <p>If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, and if the specified MetadataModel contains LobSystems that the security principal in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those LobSystems, and MUST NOT contain other MetadataObjects contained by MetadataObjects that are not contained in the result for this reason.</p>
<p>ModelReadXml</p>	<p>The ModelReadXml operation creates the MetadataObjects contained by the specified MetadataModel in the metadata store. The Properties, localized names, and ACEs of the MetadataObjects are also created. The MetadataModel MUST be specified as XML that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystem instances contained by that LobSystem and the Properties, localized names, and ACEs of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store and the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects and the Properties, localized names, and ACEs of the ignored MetadataObjects.</p>
<p>ReadSlicedXml</p>	<p>The ReadSlicedXml operation creates the Model or LobSystem and its referenced MetadataObjects, along with the Properties, localized names, and ACEs of the MetadataModel in the metadata store. The MetadataModel is represented as an implementation-specific string. The MetadataModel MUST contain a single Model or LobSystem, along with all contained MetadataObjects and their Properties in all Settings, localized names in all Settings, and ACEs in all Settings. The protocol client uses this operation to restore a backed-up Model or LobSystem to a specified partition. The WriteSlicedXml operation, as specified in section 3.1.4.115, retrieves the string to be used as an input for this operation.</p>
<p>RemoveEntityFromModel</p>	<p>The RemoveEntityFromModel operation removes the reference to the specified Entity from the specified Model.</p>
<p>RemoveLocalizedName</p>	<p>The RemoveLocalizedName operation removes the localized name with the specified LCID from the specified MetadataObject.</p>

Operation	Description
RemoveProperty	The RemoveProperty operation removes the specified Property from the specified MetadataObject .
RemoveThrottlingRule	The RemoveThrottlingRule operation deletes the specified throttle configuration setting.
SaveLocalizedName	The SaveLocalizedName operation adds or replaces a localized name for the specified MetadataObject . If a localized name with the same LCID and Setting as the specified LCID and Setting already exists for the specified MetadataObject , the protocol server MUST replace the localized name of the specified MetadataObject with the specified localized name.
SaveProperty	The SaveProperty operation adds or replaces a Property for the specified MetadataObject . If a Property with the same name as the specified Property already exists in the same Setting for the specified MetadataObject , the protocol server MUST replace the Property of the MetadataObject with the specified Property .
SetAccessControlEntries	<p>The SetAccessControlEntries operation sets ACEs for the specified MetadataObject. The protocol server MUST delete all ACEs of the specified MetadataObject for the specified Setting, and then add the specified ACEs to the specified MetadataObject.</p> <p>Note that if the SetAccessControlEntries element, as specified in section 3.1.4.107.2.1, contains an accessControlEntries element such that any two of its AccessControlEntryStruct elements contain the same value for the principalName element, the protocol server MUST add only one ACE for that principalName.</p>
SetDefaultActionForEntity	The SetDefaultActionForEntity operation sets the default Action for the specified Entity.
SetDefaultValuesForTypeDescriptor	The SetDefaultValuesForTypeDescriptor operation sets the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the TypeDescriptorId element of the specified DefaultValueStruct complex type for the MethodInstance, with the MetadataObjectId specified by the methodInstanceId element of the specified DefaultValueStruct .
SetLobSystemDataByLobSystemId	The SetLobSystemDataByLobSystemId operation sets the Business Logic Modules< 32 > for the specified LobSystem.
TypeDescriptorCreate	The TypeDescriptorCreate operation creates a TypeDescriptor in the metadata store.
TypeDescriptorMergeXml	The TypeDescriptorMergeXml operation merges the Properties and localized names contained by the TypeDescriptors in the specified MetadataModel into an existing TypeDescriptor in the metadata store. The MetadataModel MUST be specified as a well-formed external parsed entity, as specified in [XML] section 4.3.2, and MUST have as a root element the TypeDescriptor element, as specified in [MS-

Operation	Description
	BDCMFFS] section 2.2.3.34.
TypeDescriptorReadXml	The TypeDescriptorReadXml operation creates the TypeDescriptors contained by the specified MetadataModel, along with their Properties and localized names, in the metadata store. The MetadataModel MUST be specified as a well-formed external parsed entity, as specified in [XML] section 4.3.2, and MUST have as a root element the TypeDescriptor element, as specified in [MS-BDCMFFS] section 2.1.3.43.
Update	The Update operation updates a MetadataObject in the metadata store.
WriteSlicedXml	The WriteSlicedXml operation retrieves an implementation-specific string corresponding to the specified LobSystem or Model, <33> along with its included MetadataObjects. This operation can also optionally retrieve the localized names, Properties , and ACEs in all Settings. The protocol client uses this operation to back up a Model or an LobSystem in a specified partition. The ReadSlicedXml operation, as specified in section 3.1.4.100, can be used to restore the Model or LobSystem by specifying the string returned from this operation.

3.1.4.1 Activate

The **Activate** operation activates the specified **Entity**.

The following is the **WSDL** port type specification of the **Activate WSDL operation**.

```
<wsdl:operation name="Activate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse"
    message="tns:BusinessDataCatalogSharedService_Activate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Activate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Activate_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified Entity .
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity has been updated by a context other than the one by which it was currently being read. This happens when the specified object version is not equal to the current object version of the Entity . For example, this error can be raised when one context reads an Entity , another context updates the same Entity , and then the original context tries to update.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed for one of the following reasons: <ul style="list-style-type: none"> The specified Entity or another version of the specified Entity is already active. The protocol server encountered reference errors as specified in section 3.1.4.5.3.2 when performing this operation.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist.

3.1.4.1.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_Activate_InputMessage	The request WSDL message for the Activate WSDL operation .
BusinessDataCatalogSharedService_Activate_OutputMessage	The response WSDL message for the Activate WSDL operation .

3.1.4.1.1.1 BusinessDataCatalogSharedService_Activate_InputMessage

The request **WSDL message** for the **Activate WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate
```

The **SOAP body** contains the **Activate** element.

3.1.4.1.1.2 BusinessDataCatalogSharedService_Activate_OutputMessage

The response **WSDL message** for the **Activate WSDL operation**.

The **SOAP body** contains the **ActivateResponse** element.

3.1.4.1.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
Activate	The input data for the Activate WSDL operation .
ActivateResponse	The result data for the Activate WSDL operation .

3.1.4.1.2.1 Activate

The **Activate** element specifies the input data for the **Activate WSDL operation**.

```
<xs:element name="Activate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStruct: The specified **Entity**. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.1.2.2 ActivateResponse

The **ActivateResponse** element specifies the result data for the **Activate WSDL operation**.

```
<xs:element name="ActivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ActivateResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ActivateResult: The activated **Entity**. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 AddAssociationReferenceToAssociationGroup

The **AddAssociationReferenceToAssociationGroup** operation creates the specified **AssociationReference** in the specified **AssociationGroup**.

The following is the **WSDL** port type specification of the **AddAssociationReferenceToAssociationGroup WSDL operation**.

```
<wsdl:operation name="AddAssociationReferenceToAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroup"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Input
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcEx
ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inval
idOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Metad
ataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the Entity containing the specified AssociationGroup .
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationGroup has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal

Error complex type	Condition
	to the current object version of the AssociationGroup . For example, this error can be raised when one context reads the AssociationGroup , another context updates the same AssociationGroup , and then the original context tries to update.
DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)	Another AssociationReference in the specified AssociationGroup references the Association that is referenced by the specified AssociationReference .
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationGroup already contains the implementation-specific maximum number of AssociationReferences .
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the Entity containing the AssociationGroup is active.

3.1.4.2.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage	The request WSDL message for the AddAssociationReferenceToAssociationGroup WSDL operation .
BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage	The response WSDL message for the AddAssociationReferenceToAssociationGroup WSDL operation .

3.1.4.2.1.1 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage

The request **WSDL message** for the **AddAssociationReferenceToAssociationGroup WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup
```

The **SOAP body** contains the **AddAssociationReferenceToAssociationGroup** element.

3.1.4.2.1.2 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage

The response **WSDL message** for the **AddAssociationReferenceToAssociationGroup WSDL operation**.

The **SOAP body** contains the **AddAssociationReferenceToAssociationGroupResponse** element.

3.1.4.2.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddAssociationReferenceToAssociationGroup	The input data for the AddAssociationReferenceToAssociationGroup WSDL operation .
AddAssociationReferenceToAssociationGroupResponse	The result data for the AddAssociationReferenceToAssociationGroup WSDL operation .

3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup

The **AddAssociationReferenceToAssociationGroup** element specifies the input data for the **AddAssociationReferenceToAssociationGroup WSDL operation**.

```
<xs:element name="AddAssociationReferenceToAssociationGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationGroupStruct" nillable="true" type="q5:AssociationGroupStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationGroupStruct: The **AssociationGroup**. The **partition** of this **AssociationGroup** MUST be the partition of the protocol client.

associationReferenceStruct: The **AssociationReference**. The partition of this **AssociationReference** MUST be the partition of the protocol client.

3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse

The **AddAssociationReferenceToAssociationGroupResponse** element specifies the result data for the **AddAssociationReferenceToAssociationGroup WSDL operation**.

```
<xs:element name="AddAssociationReferenceToAssociationGroupResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
type="q5:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

AddAssociationReferenceToAssociationGroupResult: The **AssociationGroup**. The **partition** of this **AssociationGroup** MUST be the partition of the protocol client.

associationReferenceStruct: The **AssociationReference**<34>. The partition of this **AssociationReference** MUST be the partition of the protocol client.

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 AddEntityToModel

The **AddEntityToModel** operation adds a reference to the specified **Entity** to the specified **Model**.

The following is the **WSDL** port type specification of the **AddEntityToModel WSDL operation**.

```

<wsdl:operation name="AddEntityToModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns:BusinessDataCatalogSharedService AddEntityToModel InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelResponse"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_AddEntityToModel_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified Model .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The partition of the specified Entity is not the same as the partition of the specified Model .
BdcExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The specified Entity does not exist.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist.

3.1.4.3.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_AddEntityToModel_InputMessage	The request WSDL message for the AddEntityToModel WSDL operation .
BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage	The response WSDL message for the AddEntityToModel WSDL operation .

3.1.4.3.1.1 BusinessDataCatalogSharedService_AddEntityToModel_InputMessage

The request **WSDL message** for the **AddEntityToModel WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel
```

The **SOAP body** contains the **AddEntityToModel** element.

3.1.4.3.1.2 BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage

The response **WSDL message** for the **AddEntityToModel WSDL operation**.

The **SOAP body** contains the **AddEntityToModelResponse** element.

3.1.4.3.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddEntityToModel	The input data for the AddEntityToModel WSDL operation .
AddEntityToModelResponse	The result data for the AddEntityToModel WSDL operation .

3.1.4.3.2.1 AddEntityToModel

The **AddEntityToModel** element specifies the input data for the **AddEntityToModel WSDL operation**.

```
<xs:element name="AddEntityToModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```


modelStruct: The **Model**. The **partition** of this **Model** MUST be the partition of the protocol client.

entityStruct: The **Entity**. The partition of this **Entity** MUST be the partition of the protocol client.

3.1.4.3.2.2 AddEntityToModelResponse

The **AddEntityToModelResponse** element specifies the result data for the **AddEntityToModel WSDL operation**.

```
<xs:element name="AddEntityToModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 AddThrottlingRule

The **AddThrottlingRule** operation adds the specified **throttle configuration setting** to the **metadata store**.

The following is the **WSDL** port type specification of the **AddThrottlingRule WSDL operation**.

```
<wsdl:operation name="AddThrottlingRule" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddThrottlingRule"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddThrottlingRuleResponse"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_Fa
    ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService AddThrottlingRule ArgumentExceptionFault FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage** response message unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified safetyNetStruct is set to null.

3.1.4.4.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage	The request WSDL message for the AddThrottlingRule WSDL operation .
BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage	The response WSDL message for the AddThrottlingRule WSDL operation .

3.1.4.4.1.1 BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage

The request **WSDL message** for the **AddThrottlingRule WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Add
ThrottlingRule

```

The **SOAP body** contains the **AddThrottlingRule** element.

3.1.4.4.1.2 BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage

The response **WSDL message** for the **AddThrottlingRule WSDL operation**.

The **SOAP body** contains the **AddThrottlingRuleResponse** element.

3.1.4.4.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddThrottlingRule	The input data for the AddThrottlingRule WSDL operation .
AddThrottlingRuleResponse	The result data for the AddThrottlingRule WSDL operation .

3.1.4.4.2.1 AddThrottlingRule

The **AddThrottlingRule** element specifies the input data for the **AddThrottlingRule WSDL operation**.

```
<xs:element name="AddThrottlingRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="q5:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

safetyNetStruct: The **throttle configuration setting** to add.

3.1.4.4.2.2 AddThrottlingRuleResponse

The **AddThrottlingRuleResponse** element specifies the result data for the **AddThrottlingRule WSDL operation**.

```
<xs:element name="AddThrottlingRuleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 BulkSwitchActiveOrValidate

The **BulkSwitchActiveOrValidate** operation changes the active version of the specified set of **Entities** or validates the specified **Entities** for the purpose of changing the active versions and identifying related errors.

The following is the **WSDL** port type specification of the **BulkSwitchActiveOrValidate WSDL operation**.

```
<wsdl:operation name="BulkSwitchActiveOrValidate"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateResponse"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcepti
onStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The value of the validate element is set to "false", and the security principal in whose context the protocol client is operating is not authorized to modify the specified Entities .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The partition of the specified Model is different from the partition of any of the specified Entities .
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The entityStructs element in the BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage has no elements.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	At least one of the specified Entities has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the Entity . For example, this error can be raised when one context reads the given Entity , after which another context updates the same Entity , and then the original context tries to update the same Entity .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	One or more of the specified Entities does not exist.

3.1.4.5.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage	The request WSDL message for the BulkSwitchActiveOrValidate WSDL operation .

Message	Description
BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage	The response WSDL message for the BulkSwitchActiveOrValidate WSDL operation.

3.1.4.5.1.1 BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage

The request **WSDL message** for the **BulkSwitchActiveOrValidate** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate
```

The **SOAP body** contains the **BulkSwitchActiveOrValidate** element.

3.1.4.5.1.2 BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage

The response **WSDL message** for the **BulkSwitchActiveOrValidate** **WSDL operation**.

The **SOAP body** contains the **BulkSwitchActiveOrValidateResponse** element.

3.1.4.5.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
BulkSwitchActiveOrValidate	The input data for the BulkSwitchActiveOrValidate WSDL operation .
BulkSwitchActiveOrValidateResponse	The result data for the BulkSwitchActiveOrValidate WSDL operation.

3.1.4.5.2.1 BulkSwitchActiveOrValidate

The **BulkSwitchActiveOrValidate** element specifies the input data for the **BulkSwitchActiveOrValidate** **WSDL operation**.

```
<xs:element name="BulkSwitchActiveOrValidate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
      <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

</xs:element>

entityStructs: The **Entities** that are to be set active. At least one **Entity** MUST be specified. The **partition** of each of the **Entities** in this element MUST be the partition of the protocol client. If the value of the **validate** element is set to "false", the protocol server MUST set the specified **Entities** to active upon successful completion of this operation.

validate: This element specifies whether the state of the data stored in the protocol server can be changed. If it is set to "false", the protocol server SHOULD change the active versions of the **Entities** [<35>](#). If it is set to "true", the protocol server MUST validate the specified **Entities** and return any associated errors, and the protocol server MUST NOT change the state of the data stored on the protocol server.

modelStruct: The **Model** to which to add the specified **Entities**. The partition of this **Model** MUST be the partition of the protocol client. If the value of this element is not NULL and the value of the **validate** element is set to "false", this operation MUST add all specified **Entities** to the specified **Model** upon successful completion.

3.1.4.5.2.2 BulkSwitchActiveOrValidateResponse

The **BulkSwitchActiveOrValidateResponse** element specifies the result data for the **BulkSwitchActiveOrValidate WSDL operation**.

```
<xs:element name="BulkSwitchActiveOrValidateResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="BulkSwitchActiveOrValidateResult" nillable="true"
        type="q5:ArrayOfActivationErrorRecordStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

BulkSwitchActiveOrValidateResult: The reference errors encountered during the operation. The operation is successful if this element does not contain any reference errors.

entityStructs: This element MUST contain information about **Entities** that were updated as a result of this operation. The value of this element MUST be ignored by the protocol client if the value of the **validate** element is set to "true". The **partition** of the **Entities** MUST be the partition of the protocol client.

3.1.4.5.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ActivationErrorRecordStruct	Contains information specific to a single reference error.
ArrayOfActivationErrorRecordStruct	Contains reference errors encountered during the operation.

3.1.4.5.3.1 ArrayOfActivationErrorRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActivationErrorRecordStruct** complex type contains reference errors encountered during the operation.

```
<xs:complexType name="ArrayOfActivationErrorRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="q5:ActivationErrorRecordStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActivationErrorRecordStruct: A reference error encountered during the operation.

3.1.4.5.3.2 ActivationErrorRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ActivationErrorRecordStruct** complex type contains information about a single reference error encountered during the operation. A reference error indicates that a **MetadataObject** has a reference to an invalid **MetadataObject**. The value of the **errorCode** element specifies which **MetadataObject** has an error and the error type.

```
<xs:complexType name="ActivationErrorRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingEntityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingEntityVersion" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingMethodName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="containingParameterName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
    <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```


aGAssociationEntityReferenceName: The name of the **Entity** containing the **Association** referenced by the **AssociationReference** that is in error.

aGAssociationEntityReferenceNamespace: The namespace of the **Entity** containing the **Association** referenced by the **AssociationReference** that is in error.

aGAssociationReferenceName: The name of the **Association** referenced by the **AssociationReference** that is in error.

containingAssociationGroupName: The name of the **AssociationGroup** that is in error or contains the **AssociationReference** that is in error.

containingEntityName: The name of the **Entity** that is in error or contains the **MetadataObject** that is in error.

containingEntityNamespace: The namespace of the **Entity** that is in error or contains the **MetadataObject** that is in error.

containingEntityVersion: The string representation of the version of the **Entity** that is in error or contains the **MetadataObject** in error. Following is the **ABNF**, as specified in [\[RFC5234\]](#), for the **ContainingEntityVersion** structure:

```
ContainingEntityVersion = Major %x2E Minor *1(%x2E Build *1(%x2E Revision))
```

```
Major = 1*10DIGIT
```

```
Minor = 1*10DIGIT
```

```
Build = 1*10DIGIT
```

```
Revision = 1*10DIGIT
```

Major MUST be the major version of the **Entity**. **Minor** MUST be the minor version of the **Entity**. **Build** MUST be the build version of the **Entity**. **Revision** MUST be the revision version of the **Entity**.

containingMethodName: The name of the **Method** that contains the **MetadataObject** that is in error.

containingParameterName: The name of the **Parameter** that contains the **MetadataObject** that is in error.

containingTypeDescriptorId: The **MetadataObjectId** of the **TypeDescriptor** that is in error.

containingTypeDescriptorName: The name of the **TypeDescriptor** that is in error.

errorCode: The error code. The following table describes possible values.

Value	Description
-1003	<p>A TypeDescriptor is in error because it references an Identifier that does not exist in the specified Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none">▪ containingEntityNamespace▪ containingEntityName▪ containingEntityVersion▪ containingMethodName▪ containingParameterName

Value	Description
	<ul style="list-style-type: none"> ▪ containingTypeDescriptorName ▪ containingTypeDescriptorId ▪ tDIDReferenceName ▪ tDIDReferenceTypeName ▪ tDIDEntityReferenceName ▪ tDIDEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1004	<p>A TypeDescriptor is in error because it references an Association that does not exist in the specified Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ containingParameterName ▪ containingTypeDescriptorName ▪ containingTypeDescriptorId ▪ tDAssociationReferenceName ▪ tDAssociationEntityReferenceName ▪ tDAssociationEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1005	<p>An Entity is in error because the TypeDescriptors that are contained in the Parameters of its Methods are referencing only non-empty subset of Identifiers of an active Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ tDIDEntityReferenceName ▪ tDIDEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1008	<p>An AssociationReference is in error because it references an Association that does not exist in the</p>

Value	Description
	<p>specified Entity<36>. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingAssociationGroupName ▪ aGAssociationReferenceName ▪ aGAssociationEntityReferenceName ▪ aGAssociationEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1011	<p>An Association is in error because the Entity containing the Association is not contained by the same LoSystem as the destination Entity of the Association. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ aGAssociationReferenceName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1012	<p>An Association is in error because all of the conditions in the following list are true:</p> <ul style="list-style-type: none"> ▪ The destination Entity of the Association contains MethodInstance, and there exists a TypeDescriptor contained by the Parameter that contains the ReturnTypeDescriptor of this MethodInstance. ▪ The same TypeDescriptor references an Identifier of a source Entity of the Association. ▪ The same TypeDescriptor references the Association. ▪ The ReturnTypeDescriptor of the Association has the IsCollection flag not set. <p>Or, all of the conditions in the following list are true:</p> <ul style="list-style-type: none"> ▪ The source Entity of the Association contains a MethodInstance, and there exists a TypeDescriptor contained by the Parameter that contains the ReturnTypeDescriptor of this

Value	Description
	<p>MethodInstance.</p> <ul style="list-style-type: none"> ▪ The same TypeDescriptor references an Identifier of the destination Entity of the Association. ▪ The same TypeDescriptor references the Association. ▪ The ReturnTypeDescriptor of the Association has the IsCollection flag set. <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ aGAssociationReferenceName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-800	<p>An AssociationGroup is in error because all Associations referenced by the AssociationReferences contained by this AssociationGroup with the IsReverse attribute not set do not have same sources. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-801	<p>An AssociationGroup is in error because one of the following conditions is true:</p> <ul style="list-style-type: none"> ▪ The Entity containing AssociationGroup is not the destination of this AssociationGroup. ▪ The AssociationGroup contains AssociationReferences with the IsReverse attribute is "true", but the AssociationGroup has more than one source. <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion

Value	Description
	<ul style="list-style-type: none"> ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-802	<p>An AssociationGroup is in error because there is more than one Association that is an Associator or a Disassociator referenced from the AssociationReferences of this AssociationGroup. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-803	<p>An AssociationGroup is in error because one of the following conditions is met:</p> <ul style="list-style-type: none"> ▪ There is more than one Association that is a BulkAssociatedIdEnumerator referenced from the AssociationReferences of this AssociationGroup with the IsReverse attribute is "false" <37>. ▪ There are more Associations that are BulkAssociatedIdEnumerators referenced from the AssociationReferences of this AssociationGroup with the IsReverse attribute is "true" than the number of sources of this AssociationGroup <38>. <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-804	<p>An AssociationGroup is in error because it contains an AssociationReference that has the IsReverse attribute "true", but the Association it references is not an AssociationNavigator, a BulkAssociationNavigator, or a BulkAssociatedIdEnumerator. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName

Value	Description
	<ul style="list-style-type: none"> ▪ containingEntityVersion ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-805	<p>An Association is in error because it is a BulkAssociationNavigator that is referenced from an AssociationReference, but it is not referenced from an AssociationReference that is contained in an AssociationGroup that has another AssociationReference that references an Association that is an AssociationNavigator and has the same value for IsReverse. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ aGAssociationReferenceName ▪ containingAssociationGroupName
-806	<p>An Association is in error because it is referenced by two or more AssociationReferences. For this error code, the following MUST NOT be not NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ aGAssociationReferenceName <p>Values of all other elements MUST be ignored by the protocol client.</p>

tDAssociationEntityReferenceName: The name of the **Entity** that contains the **Association** referenced by the **TypeDescriptor** that is in error.

tDAssociationEntityReferenceNamespace: The namespace of the **Entity** that contains the **Association** referenced by the **TypeDescriptor** that is in error.

tDAssociationReferenceName: The name of the **Association** referenced by the **TypeDescriptor** that is in error.

tDIDEntityReferenceName: The name of the **Entity** containing the **Identifier** referenced by the **TypeDescriptor** that is in error.

tDIDEntityReferenceNamespace: The namespace of the **Entity** containing the **Identifier** referenced by the **TypeDescriptor** that is in error.

tDIDReferenceName: The name of the **Identifier** referenced by the **TypeDescriptor** that is in error.

tDIDReferenceTypeName: The name of the data type that is represented by the **TypeDescriptor** that is in error.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 CheckPathInMethodInstances

The **CheckPathInMethodInstances** operation retrieves whether the specified path, which conforms to **ReturnPropertyDescriptorPath** as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.31, corresponds to a **TypeDescriptor** in a **View** of the **MethodInstances** of the specified type contained by the specified **DataClass**, along with the **MetadataObjectId** of one such **MethodInstance**, if one exists.

The following is the **WSDL** port type specification of the **CheckPathInMethodInstances WSDL operation**.

```
<wsdl:operation name="CheckPathInMethodInstances"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesResponse"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSta
teFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified path did not conform to the specification for ReturnTypeDescriptorPath in [MS-BDCMFFS] section 2.1.3.31.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist.

3.1.4.6.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage	The request WSDL message for the CheckPathInMethodInstances WSDL operation .
BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage	The response WSDL message for the CheckPathInMethodInstances WSDL operation .

3.1.4.6.1.1 BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage

The request **WSDL message** for the **CheckPathInMethodInstances WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **CheckPathInMethodInstances** element.

3.1.4.6.1.2 BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage

The response **WSDL message** for the **CheckPathInMethodInstances WSDL operation**.

The **SOAP body** contains the **CheckPathInMethodInstancesResponse** element.

3.1.4.6.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
CheckPathInMethodInstances	The input data for the CheckPathInMethodInstances WSDL operation .
CheckPathInMethodInstancesResponse	The result data for the CheckPathInMethodInstances WSDL operation .

3.1.4.6.2.1 CheckPathInMethodInstances

The **CheckPathInMethodInstances** element specifies the input data for the **CheckPathInMethodInstances WSDL operation**.

```
<xs:element name="CheckPathInMethodInstances" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="dottedPath" nillable="true" type="xs:string"/>
      <xs:element
        xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
        minOccurs="0" name="type" type="tns1:MethodInstanceType"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of **DataClass** that contains the **MethodInstances**.

dottedPath: The path to the **TypeDescriptor** from the **TypeDescriptors** contained by the **ReturnPropertyDescriptor** of the **MethodInstance**. The value MUST be a path which conforms to **ReturnPropertyDescriptorPath** as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.31.

type: The type of the **MethodInstance** to retrieve.

partitionId: The **partition** of the protocol client.

3.1.4.6.2.2 CheckPathInMethodInstancesResponse

The **CheckPathInMethodInstancesResponse** element specifies the result data for the **CheckPathInMethodInstances WSDL operation**.

```
<xs:element name="CheckPathInMethodInstancesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

CheckPathInMethodInstancesResult: If **methodInstanceId** is zero, the value MUST be "false". Otherwise, the value MUST be "true".

methodInstanceId: The value MUST be the **MetadataObjectId** of any of the **MethodInstances** of the specified type contained by the specified **DataClass** that has a **TypeDescriptor** in its **View** corresponding to the specified path. If the specified **DataClass** contains more than one **MethodInstance** that matches the criteria, which of those **MethodInstances** is returned is determined in an implementation-specific manner. If the specified **DataClass** does not contain a **MethodInstance** that matches the criteria, the value MUST be 0.

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 ClearLocalizedNames

The **ClearLocalizedNames** operation removes all **localized names** of the specified **MetadataObject** from the specified **Setting**.

The following is the **WSDL** port type specification of the **ClearLocalizedNames WSDL operation**.

```
<wsdl:operation name="ClearLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames"
    message="tns:BusinessDataCatalogSharedService ClearLocalizedNames InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse"
  </wsdl:output>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified MetadataObject .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.7.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage	The request WSDL message for the ClearLocalizedNames WSDL operation .
BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage	The response WSDL message for the ClearLocalizedNames WSDL operation .

3.1.4.7.1.1 BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage

The request **WSDL message** for the **ClearLocalizedNames WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames
```

The **SOAP body** contains the **ClearLocalizedNames** element.

3.1.4.7.1.2 BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage

The response **WSDL message** for the **ClearLocalizedNames WSDL operation**.

The **SOAP body** contains the **ClearLocalizedNamesResponse** element.

3.1.4.7.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ClearLocalizedNames	The input data for the ClearLocalizedNames WSDL operation .
ClearLocalizedNamesResponse	The result data for the ClearLocalizedNames WSDL operation .

3.1.4.7.2.1 ClearLocalizedNames

The **ClearLocalizedNames** element specifies the input data for the **ClearLocalizedNames WSDL operation**.

```
<xs:element name="ClearLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>
```

```

<xs:sequence>
  <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
  <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

metadataObjectStruct: The **MetadataObject** from which the **localized names** are to be removed. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

settingId: The **Setting** from which to delete the localized names.

3.1.4.7.2.2 ClearLocalizedNamesResponse

The **ClearLocalizedNamesResponse** element specifies the result data for the **ClearLocalizedNames WSDL operation**.

```

<xs:element name="ClearLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

3.1.4.8 ClearProperties

The **ClearProperties** operation removes all **Properties** of the specified **MetadataObject** from the specified **Setting**.

The following is the **WSDL** port type specification of the **ClearProperties WSDL operation**.

```

<wsdl:operation name="ClearProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties"
message="tns:BusinessDataCatalogSharedService ClearProperties InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ClearProperties_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ClearProperties_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified MetadataObject .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.8.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ClearProperties_InputMessage	The request WSDL message for the ClearProperties WSDL operation .
BusinessDataCatalogSharedService_ClearProperties_OutputMessage	The response WSDL message for the ClearProperties WSDL operation .

3.1.4.8.1.1 BusinessDataCatalogSharedService_ClearProperties_InputMessage

The request **WSDL message** for the **ClearProperties WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties
```

The **SOAP body** contains the **ClearProperties** element.

3.1.4.8.1.2 BusinessDataCatalogSharedService_ClearProperties_OutputMessage

The response **WSDL message** for the **ClearProperties WSDL operation**.

The **SOAP body** contains the **ClearPropertiesResponse** element.

3.1.4.8.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ClearProperties	The input data for the ClearProperties WSDL operation .
ClearPropertiesResponse	The result data for the ClearProperties WSDL operation .

3.1.4.8.2.1 ClearProperties

The **ClearProperties** element specifies the input data for the **ClearProperties WSDL operation**.

```
<xs:element name="ClearProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"  
        name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

```

        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

metadataObjectStruct: The **MetadataObject** from which the **Properties** are to be removed. The partition of this **MetadataObject** MUST be the **partition** of the protocol client.

settingId: The **Setting** from which to delete the **Properties**.

3.1.4.8.2.2 ClearPropertiesResponse

The **ClearPropertiesResponse** element specifies the result data for the **ClearProperties WSDL operation**.

```

<xs:element name="ClearPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>

```

3.1.4.8.3 Complex Types

None.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 CopyAclAcrossChildren

The **CopyAclAcrossChildren** operation clears the **ACEs** of the descendent **MetadataObjects** of a specified **MetadataObject** and copies the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.

If the specified **MetadataObject** is a **MetadataCatalog** and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the ACEs of any **LobSystem** and its descendent **MetadataObjects** if the **security principal** in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

The following is the **WSDL** port type specification of the **CopyAclAcrossChildren WSDL operation**.


```

<wsdl:operation name="CopyAclAcrossChildren" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildren"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to set

Error complex type	Condition
	permissions on the specified MetadataObject .
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.9.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage	The request WSDL message for the CopyAclAcrossChildren WSDL operation .
BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage	The response WSDL message for the CopyAclAcrossChildren WSDL operation .

3.1.4.9.1.1 BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage

The request **WSDL message** for the **CopyAclAcrossChildren WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren
```

The **SOAP body** contains the **CopyAclAcrossChildren** element.

3.1.4.9.1.2 BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage

The response **WSDL message** for the **CopyAclAcrossChildren WSDL operation**.

The **SOAP body** contains the **CopyAclAcrossChildrenResponse** element.

3.1.4.9.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
CopyAclAcrossChildren	The input data for the CopyAclAcrossChildren WSDL operation .
CopyAclAcrossChildrenResponse	The result data for the CopyAclAcrossChildren WSDL operation .

3.1.4.9.2.1 CopyAclAcrossChildren

The **CopyAclAcrossChildren** element specifies the input data for the **CopyAclAcrossChildren WSDL operation**.

```
<xs:element name="CopyAclAcrossChildren" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

3.1.4.9.2.2 CopyAclAcrossChildrenResponse

The **CopyAclAcrossChildrenResponse** element specifies the result data for the **CopyAclAcrossChildren WSDL operation**.

```
<xs:element name="CopyAclAcrossChildrenResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.9.3 Complex Types

None.

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 CopyAclAcrossChildrenForSetting

The **CopyAclAcrossChildrenForSetting** operation clears the **ACEs** in a specified **Setting** on the descendent **MetadataObjects** of the specified **MetadataObject** and copies the ACEs in the specified **Setting** on the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.

If the specified **MetadataObject** is a **MetadataCatalog** and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the ACEs of any **LobSystem** and its descendent **MetadataObjects** if the **security principal** in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

The following is the **WSDL** port type specification of the **CopyAclAcrossChildrenForSetting WSDL operation**.

```
<wsdl:operation name="CopyAclAcrossChildrenForSetting"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperatio
nExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```

```
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to set permissions on the specified MetadataObject .
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified <i>MetadataObject</i> does not exist.

3.1.4.10.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage	The request WSDL message for the CopyAclAcrossChildrenForSetting WSDL operation .
BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage	The response WSDL message for the CopyAclAcrossChildrenForSetting WSDL operation .

3.1.4.10.1.1 BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage

The request **WSDL message** for the **CopyAclAcrossChildrenForSetting WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting
```

The **SOAP body** contains the **CopyAclAcrossChildrenForSetting** element.

3.1.4.10.1.2 BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage

The response **WSDL message** for the **CopyAclAcrossChildrenForSetting WSDL operation**.

The **SOAP body** contains the **CopyAclAcrossChildrenForSettingResponse** element.

3.1.4.10.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
CopyAclAcrossChildrenForSetting	The input data for the CopyAclAcrossChildrenForSetting WSDL operation .
CopyAclAcrossChildrenForSettingResponse	The result data for the CopyAclAcrossChildrenForSetting WSDL operation .

3.1.4.10.2.1 CopyAclAcrossChildrenForSetting

The **CopyAclAcrossChildrenForSetting** element specifies the input data for the **CopyAclAcrossChildrenForSetting WSDL operation**.

```
<xs:element name="CopyAclAcrossChildrenForSetting"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

settingId: The **Setting** to copy the **ACEs** to and from.

3.1.4.10.2.2 CopyAclAcrossChildrenForSettingResponse

The **CopyAclAcrossChildrenForSettingResponse** element specifies the result data for the **CopyAclAcrossChildrenForSetting WSDL operation**.

```

<xs:element name="CopyAclAcrossChildrenForSettingResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

None.

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.4.11 CopyAclToSetting

The **CopyAclToSetting** operation deletes the **ACEs** in the specified non-default **Setting** of the specified **MetadataObject** and copies the ACEs in the default **Setting** of the specified **MetadataObject** to the specified **Setting** of the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **CopyAclToSetting WSDL operation**.

```

<wsdl:operation name="CopyAclToSetting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to set permissions on the specified MetadataObject .
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist in the metadata store .

3.1.4.11.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage	The request WSDL message for the CopyAclToSetting WSDL operation .
BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage	The response WSDL message for the CopyAclToSetting WSDL operation .

3.1.4.11.1.1 BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage

The request **WSDL message** for the **CopyAclToSetting WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting
```

The **SOAP body** contains the **CopyAclToSetting** element.

3.1.4.11.1.2 BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage

The response **WSDL message** for the **CopyAclToSetting WSDL operation**.

The **SOAP body** contains the **CopyAclToSettingResponse** element.

3.1.4.11.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
CopyAclToSetting	The input data for the CopyAclToSetting WSDL operation .
CopyAclToSettingResponse	The result data for the CopyAclToSetting WSDL operation .

3.1.4.11.2.1 CopyAclToSetting

The **CopyAclToSetting** element specifies the input data for the **CopyAclToSetting WSDL operation**.

```
<xs:element name="CopyAclToSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this element MUST be the partition of the protocol client.

settingId: The **Setting** to which to write the ACEs.

3.1.4.11.2 CopyAclToSettingResponse

The **CopyAclToSettingResponse** element specifies the result data for the **CopyAclToSetting WSDL operation**.

```
<xs:element name="CopyAclToSettingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.11.3 Complex Types

None.

3.1.4.11.4 Simple Types

None.

3.1.4.11.5 Attributes

None.

3.1.4.11.6 Groups

None.

3.1.4.11.7 Attribute Groups

None.

3.1.4.12 Deactivate

The **Deactivate** operation sets an active version of an **Entity** to not active.

The following is the **WSDL** port type specification of the **Deactivate WSDL operation**.

```
<wsdl:operation name="Deactivate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns:BusinessDataCatalogSharedService_Deactivate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse"
    message="tns:BusinessDataCatalogSharedService_Deactivate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Deactivate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Deactivate_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified Entity .
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity has been updated by a context other than the one by which it is currently

Error complex type	Condition
	<p>being read. This happens when the specified object version is not equal to the current object version of the Entity. For example, this error can be raised when a thread reads the given Entity, another thread updates the same Entity, and then the original thread tries to update.</p>
<p>InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</p>	<p>This operation cannot be performed because the protocol server encountered reference errors, as specified in section 3.1.4.5.3.2, when performing this operation.</p>
<p>InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)</p>	<p>This operation cannot be performed because the specified Entity is not active.</p>
<p>MetadataObjectNotFoundStateException (from namespace Microsoft.SharePoint.BusinessData)</p>	<p>The specified Entity does not exist.</p>

3.1.4.12.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_Deactivate_InputMessage	The request WSDL message for the Deactivate WSDL operation .
BusinessDataCatalogSharedService_Deactivate_OutputMessage	The response WSDL message for the Deactivate WSDL operation .

3.1.4.12.1.1 BusinessDataCatalogSharedService_Deactivate_InputMessage

The request **WSDL message** for the **Deactivate WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate
```

The **SOAP body** contains the **Deactivate** element.

3.1.4.12.1.2 BusinessDataCatalogSharedService_Deactivate_OutputMessage

The response **WSDL message** for the **Deactivate WSDL operation**.

The **SOAP body** contains the **DeactivateResponse** element.

3.1.4.12.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
Deactivate	The input data for the Deactivate WSDL operation .
DeactivateResponse	The result data for the Deactivate WSDL operation .

3.1.4.12.2.1 Deactivate

The **Deactivate** element specifies the input data for the **Deactivate WSDL operation**.

```
<xs:element name="Deactivate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStruct: The **Entity** to set to not active. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.12.2 DeactivateResponse

The **DeactivateResponse** element specifies the result data for the **Deactivate WSDL operation**.

```
<xs:element name="DeactivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

DeactivateResult: The **Entity** that was set to not active as a result of this operation. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.12.3 Complex Types

None.

3.1.4.12.4 Simple Types

None.

3.1.4.12.5 Attributes

None.

3.1.4.12.6 Groups

None.

3.1.4.12.7 Attribute Groups

None.

3.1.4.13 Delete

The **Delete** operation deletes the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **Delete WSDL operation**.

```
<wsdl:operation name="Delete" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Delete" message="tns:BusinessDataCatalogSharedService_Delete_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse" message="tns:BusinessDataCatalogSharedService_Delete_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Delete_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Delete_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the specified MetadataObject , or the specified MetadataObject is a Model and the security principal in whose context the protocol client is operating is not authorized to modify one or more of the LOBSystems that contain one or more Entity referenced by the specified Model .
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the MetadataObject . For example, this error can be raised when one context reads the given MetadataObject , another context updates the same MetadataObject , and then the original context tries to update the same MetadataObject .
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is an Entity , which, if active, MUST be deactivated before being deleted. An attempt was made by the server to deactivate the Entity , but, at the time of the attempt, the Entity was

Error complex type	Condition
	no longer active.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a FilterDescriptor of type TimeStampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator .
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject is a LobSystem that contains at least one Entity .
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a TypeDescriptor and there is already at least one MethodInstance whose ReturnTypeDescriptor is the specified TypeDescriptor .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

Properties that are child objects of the specified **MetadataObject** MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the metadata store.

MetadataObject	Action
Action	Delete all ActionParameters in the specified Action.
Entity	Delete all Action , Method , Identifier , and AssociationGroups that are child objects of the specified Entity , as well as all their child objects, in a recursive manner. If the LobSystem that is the parent of this Entity contains no other Entities , also delete the LobSystem , as well as all the MetadataObjects contained by the LobSystem in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified LobSystem .
Method	Delete all MethodInstance , FilterDescriptor , and Parameters that are child objects of the specified Method , as well as all their child objects, in a recursive manner. <39>
Model	Delete all LobSystems and Entities that are referenced by the specified Model , as well as all their child objects, in a recursive manner.
Parameter	Delete the root TypeDescriptor of the specified Parameter , as well as all the child objects of the root TypeDescriptor , in a recursive manner. <40> If there are several parameters that exist in the same method, and one of the parameters is deleted, then the objectVersion of the other parameters are incremented by 1, and the ordinalNumber of the other parameters are changed according to the following rules: <ol style="list-style-type: none"> 1. If the parameter is deleted, the ordinalNumber value of the parameters whose ordinalNumber values

MetadataObject	Action
	are greater than this parameter are reduced by 1. 2. If the parameter is deleted, the ordinalNumber value of the parameters whose ordinalNumber values are less than this parameter are not changed.
TypeDescriptor	Delete all the TypeDescriptors that are child objects of the specified TypeDescriptor , as well as all their child objects, in a recursive manner.

3.1.4.13.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_Delete_InputMessage	The request WSDL message for the Delete WSDL operation .
BusinessDataCatalogSharedService_Delete_OutputMessage	The response WSDL message for the Delete WSDL operation .

3.1.4.13.1.1 BusinessDataCatalogSharedService_Delete_InputMessage

The request **WSDL message** for the **Delete WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete
```

The **SOAP body** contains the **Delete** element.

3.1.4.13.1.2 BusinessDataCatalogSharedService_Delete_OutputMessage

The response **WSDL message** for the **Delete WSDL operation**.

The **SOAP body** contains the **DeleteResponse** element.

3.1.4.13.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
Delete	The input data for the Delete WSDL operation .
DeleteResponse	The result data for the Delete WSDL operation .

3.1.4.13.2.1 Delete

The **Delete** element specifies the input data for the **Delete WSDL operation**.

```
<xs:element name="Delete" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** that this operation MUST delete. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

3.1.4.13.2.2 DeleteResponse

The **DeleteResponse** element specifies the result data for the **Delete WSDL operation**.

```
<xs:element name="DeleteResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.13.3 Complex Types

None.

3.1.4.13.4 Simple Types

None.

3.1.4.13.5 Attributes

None.

3.1.4.13.6 Groups

None.

3.1.4.13.7 Attribute Groups

None.

3.1.4.14 DeleteAssociationReferenceFromAssociationGroup

The **DeleteAssociationReferenceFromAssociationGroup** operation removes an **AssociationReference** from an **AssociationGroup** by deleting the **AssociationReference**.

The following is the **WSDL** port type specification of the **DeleteAssociationReferenceFromAssociationGroup WSDL operation**.

```
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
--------------------	-----------

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the Entity that contains the AssociationGroup containing the specified AssociationReference .
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The AssociationGroup identifier of the specified AssociationReference is set to zero.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationReference has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the AssociationReference . For example, this error can be raised when one context reads the AssociationReference , another context updates the same AssociationReference , and then the original context tries to update. <41>
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the Entity that contains the AssociationGroup that contains the specified AssociationReference is active. <42>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The AssociationGroup containing the specified AssociationReference does not exist.
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The identifier of the specified

Error complex type	Condition
ture)	AssociationReference does not exist.

3.1.4.14.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage	The request WSDL message for the DeleteAssociationReferenceFromAssociationGroup WSDL operation .
BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage	The response WSDL message for the DeleteAssociationReferenceFromAssociationGroup WSDL operation .

3.1.4.14.1.1 BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage

The request **WSDL message** for the **DeleteAssociationReferenceFromAssociationGroup WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup
```

The **SOAP body** contains the **DeleteAssociationReferenceFromAssociationGroup** element.

3.1.4.14.1.2 BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage

The response **WSDL message** for the **DeleteAssociationReferenceFromAssociationGroup WSDL operation**.

The **SOAP body** contains the **DeleteAssociationReferenceFromAssociationGroupResponse** element.

3.1.4.14.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
DeleteAssociationReferenceFromAssociationGroup	The input data for the DeleteAssociationReferenceFromAssociation

Element	Description
	Group WSDL operation .
DeleteAssociationReferenceFromAssociationGroupResponse	The result data for the DeleteAssociationReferenceFromAssociationGroup WSDL operation.

3.1.4.14.2.1 DeleteAssociationReferenceFromAssociationGroup

The **DeleteAssociationReferenceFromAssociationGroup** element specifies the input data for the **DeleteAssociationReferenceFromAssociationGroup** **WSDL operation**.

```
<xs:element name="DeleteAssociationReferenceFromAssociationGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationReferenceStruct: The **AssociationReference**. The **partition** of this **AssociationReference** MUST be the partition of the protocol client.

partitionId: The partition of the protocol client.

3.1.4.14.2.2 DeleteAssociationReferenceFromAssociationGroupResponse

The **DeleteAssociationReferenceFromAssociationGroupResponse** element specifies the result data for the **DeleteAssociationReferenceFromAssociationGroup** **WSDL operation**.

```
<xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.14.3 Complex Types

None.

3.1.4.14.4 Simple Types

None.

3.1.4.14.5 Attributes

None.

3.1.4.14.6 Groups

None.

3.1.4.14.7 Attribute Groups

None.

3.1.4.15 DeleteDefaultValueForTypeDescriptor

The **DeleteDefaultValueForTypeDescriptor** operation deletes the **DefaultValue** of the specified **TypeDescriptor** for the specified **MethodInstance**.

The following is the **WSDL** port type specification of the **DeleteDefaultValueForTypeDescriptor WSDL operation**.

```
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNul
lExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOut
OfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOper
ationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExc
eptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the Method containing the Parameter containing the specified TypeDescriptor .
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId for the TypeDescriptor or the MethodInstance is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor or the MethodInstance does not exist.

3.1.4.15.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage	The request WSDL message for the DeleteDefaultValueForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage	The response WSDL message for the DeleteDefaultValueForTypeDescriptor WSDL operation.

3.1.4.15.1.1 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage

The request **WSDL message** for the **DeleteDefaultValueForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor
```

The **SOAP body** contains the **DeleteDefaultValueForTypeDescriptor** element.

3.1.4.15.1.2 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor or_OutputMessage

The response **WSDL message** for the **DeleteDefaultValueForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **DeleteDefaultValueForTypeDescriptorResponse** element.

3.1.4.15.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
DeleteDefaultValueForTypeDescriptor	The input data for the DeleteDefaultValueForTypeDescriptor WSDL operation .
DeleteDefaultValueForTypeDescriptorResponse	The result data for the DeleteDefaultValueForTypeDescriptor WSDL operation .

3.1.4.15.2.1 DeleteDefaultValueForTypeDescriptor

The **DeleteDefaultValueForTypeDescriptor** element specifies the input data for the **DeleteDefaultValueForTypeDescriptor WSDL operation**.

```
<xs:element name="DeleteDefaultValueForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The **MetadataObjectId** of the **TypeDescriptor**.

methodInstanceId: The **MetadataObjectId** of the **MethodInstance**.

partitionId: The **partition** of the protocol client.

3.1.4.15.2.2 DeleteDefaultValueForTypeDescriptorResponse


```

edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentOutOfRangeExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade BdcExceptionStateFault FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade InvalidOperationExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the specified MetadataObject .
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the MetadataObject . For example, this error can be raised when one context reads the given MetadataObject , another context updates the same MetadataObject , and then the original context tries to update the same MetadataObject .
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is an Entity , which, if active, MUST be deactivated before being deleted. An attempt was made by the server to deactivate the Entity , but at the time of the attempt, the Entity was no longer active.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a FilterDescriptor of type TimeStampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator .
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject is an LOBSystem that contains at least one Entity.

Error complex type	Condition
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a TypeDescriptor and there is already at least one MethodInstance whose ReturnPropertyDescriptor is the specified TypeDescriptor .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

Properties that are child objects of the specified **MetadataObject** MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the **metadata store**.

MetadataObject	Action
Action	Delete all ActionParameters in the specified Action .
Entity	Delete all Action , Method , Identifier , and AssociationGroups that are child objects of the specified Entity , as well as all their child objects, in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified LobSystem .
Method	Delete all MethodInstance , FilterDescriptor , and Parameters that are child objects of the specified Method , as well as all their child objects, in a recursive manner. <43>
Parameter	Delete the root TypeDescriptor of the specified Parameter , as well as all the child objects of the root TypeDescriptor , in a recursive manner. <44> If there are several parameters that exist in the same method, and one of the parameters is deleted, then the objectVersion of the other parameters are incremented by 1, and the ordinalNumber value of the other parameters are changed according to the below rules: <ol style="list-style-type: none"> 1. If the parameter is deleted, the ordinalNumber value of the parameters whose ordinalNumber values are greater than this parameter are reduced by 1. 2. If the parameter is deleted, the ordinalNumber value of the parameters whose ordinalNumber values are less than this parameter are not changed.
TypeDescriptor	Delete all the TypeDescriptors that are child objects of the specified TypeDescriptor , as well as all their child objects, in a recursive manner.

3.1.4.16.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage	The request WSDL message for the DeleteNoCascade WSDL operation .
BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage	The response WSDL message for the DeleteNoCascade WSDL operation .

3.1.4.16.1.1 BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage

The request **WSDL message** for the **DeleteNoCascade WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade
```

The **SOAP body** contains the **DeleteNoCascade** element.

3.1.4.16.1.2 BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage

The response **WSDL message** for the **DeleteNoCascade WSDL operation**.

The **SOAP body** contains the **DeleteNoCascadeResponse** element.

3.1.4.16.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
DeleteNoCascade	The input data for the DeleteNoCascade WSDL operation .
DeleteNoCascadeResponse	The result data for the DeleteNoCascade WSDL operation .

3.1.4.16.2.1 DeleteNoCascade

The **DeleteNoCascade** element specifies the input data for the **DeleteNoCascade WSDL operation**.

```
<xs:element name="DeleteNoCascade" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** that this operation MUST delete. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

3.1.4.16.2 DeleteNoCascadeResponse

The **DeleteNoCascadeResponse** element specifies the result data for the **DeleteNoCascade WSDL operation**.

```
<xs:element name="DeleteNoCascadeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.16.3 Complex Types

None.

3.1.4.16.4 Simple Types

None.

3.1.4.16.5 Attributes

None.

3.1.4.16.6 Groups

None.

3.1.4.16.7 Attribute Groups

None.

3.1.4.17 DeleteProxyAssemblyForLobSystem

The **DeleteProxyAssemblyForLobSystem** operation deletes a **Business Logic Module** [<45>](#) associated with the specified **LobSystem**.

The following is the **WSDL** port type specification of the **DeleteProxyAssemblyForLobSystem WSDL operation**.

```
<wsdl:operation name="DeleteProxyAssemblyForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
```

```

name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified LobSystem , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist<46>.

3.1.4.17.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem	The request WSDL message for

Message	Description
m_InputMessage	the DeleteProxyAssemblyForLobSystem WSDL operation .
BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage	The response WSDL message for the DeleteProxyAssemblyForLobSystem WSDL operation .

3.1.4.17.1.1 BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage

The request **WSDL message** for the **DeleteProxyAssemblyForLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem
```

The **SOAP body** contains the **DeleteProxyAssemblyForLobSystem** element.

3.1.4.17.1.2 BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage

The response **WSDL message** for the **DeleteProxyAssemblyForLobSystem WSDL operation**.

The **SOAP body** contains the **DeleteProxyAssemblyForLobSystemResponse** element.

3.1.4.17.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
DeleteProxyAssemblyForLobSystem	The input data for the DeleteProxyAssemblyForLobSystem WSDL operation .
DeleteProxyAssemblyForLobSystemResponse	The result data for the DeleteProxyAssemblyForLobSystem WSDL operation .

3.1.4.17.2.1 DeleteProxyAssemblyForLobSystem

The **DeleteProxyAssemblyForLobSystem** element specifies the input data for the **DeleteProxyAssemblyForLobSystem WSDL operation**.

```
<xs:element name="DeleteProxyAssemblyForLobSystem"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```
</xs:sequence>
</xs:complexType>
</xs:element>
```

LobSystemStruct: The **LobSystem** for which the **Business Logic Module** [47](#) is to be deleted. The **partition** of this **LobSystem** MUST be the partition of the protocol client.

3.1.4.17.2 DeleteProxyAssemblyForLobSystemResponse

The **DeleteProxyAssemblyForLobSystemResponse** element specifies the result data for the **DeleteProxyAssemblyForLobSystem** **WSDL operation**.

```
<xs:element name="DeleteProxyAssemblyForLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.17.3 Complex Types

None.

3.1.4.17.4 Simple Types

None.

3.1.4.17.5 Attributes

None.

3.1.4.17.6 Groups

None.

3.1.4.17.7 Attribute Groups

None.

3.1.4.18 EntityCreate

The **EntityCreate** operation creates an **Entity** in the specified **LobSystem**. The operation MUST copy **ACEs** from the specified **LobSystem** to the created **Entity**. If a **Model** is specified, the operation MUST associate the created **Entity** with the specified **Model**. Otherwise, the created **Entity** is not referenced by any **Model**.

The following is the **WSDL** port type specification of the **EntityCreate** **WSDL operation**.

```
<wsdl:operation name="EntityCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse"
message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_EntityCreate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_EntityCreate_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the specified MetadataCatalog in the protocol client partition .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	At least one of the following is true: <ul style="list-style-type: none"> ▪ The namespace specified for the new Entity is NULL or empty. ▪ The length of the namespace specified for the new

Error complex type	Condition
	<p>Entity is greater than 255 characters.</p> <ul style="list-style-type: none"> The name specified for the new Entity is NULL or empty. The length of the name specified for the new Entity is greater than 255 characters.
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The version specified for a new Entity is NULL.
DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the same name, namespace, version, and partition already exists in the specified LobSystem .
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem already contains the implementation-specific maximum number of Entities .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist.

3.1.4.18.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_EntityCreate_InputMessage	The request WSDL message for the EntityCreate WSDL operation .
BusinessDataCatalogSharedService_EntityCreate_OutputMessage	The response WSDL message for the EntityCreate WSDL operation .

3.1.4.18.1.1 BusinessDataCatalogSharedService_EntityCreate_InputMessage

The request **WSDL message** for the **EntityCreate WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate
```

The **SOAP body** contains the **EntityCreate** element.

3.1.4.18.1.2 BusinessDataCatalogSharedService_EntityCreate_OutputMessage

The response **WSDL message** for the **EntityCreate WSDL operation**.

The **SOAP body** contains the **EntityCreateResponse** element.

3.1.4.18.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
EntityCreate	The input data for the EntityCreate WSDL operation .
EntityCreateResponse	The result data for the EntityCreate WSDL operation .

3.1.4.18.2.1 EntityCreate

The **EntityCreate** element specifies the input data for the **EntityCreate WSDL operation**.

```
<xs:element name="EntityCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues"
nillable="true" type="q5:EntityStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: The **Entity** to be created. The **partition** of this **Entity** MUST be the partition of the protocol client.

lobSystemStruct: The **LobSystem** in which the **Entity** is to be created. The partition of this **LobSystem** MUST be the partition of the protocol client.

modelStruct: The **Model** that references the created **Entity**. If the **Model** is NULL or its **MetadataObjectId** is set to zero, the protocol server MUST ignore it. Otherwise, the partition of this **Model** MUST be the partition of the protocol client.

3.1.4.18.2.2 EntityCreateResponse

The **EntityCreateResponse** element specifies the result data for the **EntityCreate WSDL operation**.

```
<xs:element name="EntityCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="EntityCreateResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

EntityCreateResult: The created **Entity**. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.18.3 Complex Types

None.

3.1.4.18.4 Simple Types

None.

3.1.4.18.5 Attributes

None.

3.1.4.18.6 Groups

None.

3.1.4.18.7 Attribute Groups

None.

3.1.4.19 ExportPackage

The **ExportPackage** operation retrieves an XML representation of the following objects from the **metadata store**:

- **MetadataObjects** contained by the specified **MetadataModel** if "Model" value is set for the **packageContents** element. The **XML** MUST conform to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- Localized names, **Properties**, and **ACEs** corresponding to **MetadataObjects** contained by the specified **MetadataModel** if "Model" value is not set for the **packageContents** element. The XML MUST conform to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.

If the **CameThroughRemoteAdminService** header specified in section [3.1](#) is present in the SOAP request, and if the specified **MetadataModel** contains **LobSystems** that the **security principal** in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

The following is the **WSDL** port type specification of the **ExportPackage WSDL operation**.

```
<wsdl:operation name="ExportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ExportPackage_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ExportPackage_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to export<48> the specified Model .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The packageContents element has the "InlineProxies" value set but does not have the "Model" value set.
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified Model is NULL.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified Model is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model or other MetadataObjects to be exported do not exist.

3.1.4.19.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ExportPackage_InputMessage	The request WSDL message for the ExportPackage WSDL operation .
BusinessDataCatalogSharedService_ExportPackage_OutputMessage	The response WSDL message for the ExportPackage WSDL operation .

3.1.4.19.1.1 BusinessDataCatalogSharedService_ExportPackage_InputMessage

The request **WSDL message** for the **ExportPackage WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage
```

The **SOAP body** contains the **ExportPackage** element.

3.1.4.19.1.2 BusinessDataCatalogSharedService_ExportPackage_OutputMessage

The response **WSDL message** for the **ExportPackage WSDL operation**.

The **SOAP body** contains the **ExportPackageResponse** element.

3.1.4.19.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ExportPackage	The input data for the ExportPackage WSDL operation .
ExportPackageResponse	The result data for the ExportPackage WSDL operation .

3.1.4.19.2.1 ExportPackage

The **ExportPackage** element specifies the input data for the **ExportPackage WSDL operation**.

```
<xs:element name="ExportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

modelStruct: The **Model**. The **partition** of this **Model** MUST be the partition of the protocol client.

packageContents: Specifies the kind of data to retrieve for the specified **Model**. If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding **MetadataObjects** from the specified **Setting**. If the "Model" value is also specified, the protocol server MUST also retrieve **Properties** from the default setting that do not have the same name as the **Properties** in the specified **Setting**. If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**. If the "LocalizedNames" value is specified, the protocol server MUST retrieve the **localized names** for the corresponding **MetadataObjects** from the specified **Setting**. If the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same **language code identifier (LCID)** as the localized names in the specified **Setting**. If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**. If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject** and if "Model" value is also specified, the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**. If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

settingId: The identifier of the **Setting** to use for retrieving **Properties**, localized names, and ACEs to export. If **Properties**, localized names, or ACEs are not exported, the protocol server MUST ignore the value of this element.

3.1.4.19.2 ExportPackageResponse

The **ExportPackageResponse** element specifies the result data for the **ExportPackage WSDL operation**.

```

<xs:element name="ExportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ExportPackageResult" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

ExportPackageResult: The **XML** representation conforming to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) that contains the specified data for the **MetadataModel**.

3.1.4.19.3 Complex Types

None.

3.1.4.19.4 Simple Types

None.

3.1.4.19.5 Attributes

None.

3.1.4.19.6 Groups

None.

3.1.4.19.7 Attribute Groups

None.

3.1.4.20 GenerateProxyAssemblyForLobSystem

The **GenerateProxyAssemblyForLobSystem** operation forces the protocol server to create an implementation-specific **Business Logic Module**<49> for the specified **LobSystem** to connect to the LOB system described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem**, this operation MUST NOT create another Business Logic Module and MUST complete successfully.

The following is the **WSDL** port type specification of the **GenerateProxyAssemblyForLobSystem WSDL operation**.

```
<wsdl:operation name="GenerateProxyAssemblyForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified LobSystem , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero.

3.1.4.20.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage	The request WSDL message for the GenerateProxyAssemblyForLobSystem WSDL operation .
BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage	The response WSDL message for the GenerateProxyAssemblyForLobSystem WSDL operation .

3.1.4.20.1.1 BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage

The request **WSDL message** for the **GenerateProxyAssemblyForLobSystem WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **GenerateProxyAssemblyForLobSystem** element.

3.1.4.20.1.2 BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage

The response **WSDL message** for the **GenerateProxyAssemblyForLobSystem WSDL operation**.

The **SOAP body** contains the **GenerateProxyAssemblyForLobSystemResponse** element.

3.1.4.20.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GenerateProxyAssemblyForLobSystem	The input data for the GenerateProxyAssemblyForLobSystem WSDL operation .
GenerateProxyAssemblyForLobSystemResponse	The result data for the GenerateProxyAssemblyForLobSystem WSDL operation .

3.1.4.20.2.1 GenerateProxyAssemblyForLobSystem

The **GenerateProxyAssemblyForLobSystem** element specifies the input data for the **GenerateProxyAssemblyForLobSystem WSDL operation**.

```
<xs:element name="GenerateProxyAssemblyForLobSystem"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem**.

3.1.4.20.2.2 GenerateProxyAssemblyForLobSystemResponse

The **GenerateProxyAssemblyForLobSystemResponse** element specifies the result data for the **GenerateProxyAssemblyForLobSystem WSDL operation**.

```
<xs:element name="GenerateProxyAssemblyForLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.20.3 Complex Types

None.

3.1.4.20.4 Simple Types

None.

3.1.4.20.5 Attributes

None.

3.1.4.20.6 Groups

None.

3.1.4.20.7 Attribute Groups

None.

3.1.4.21 GetAccessControlEntries

The **GetAccessControlEntries** operation retrieves the **ACEs** for the specified **MetadataObject** from the specified **Setting**. If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is set to "true", the protocol server MUST retrieve ACEs for the specified **MetadataObject** from the default **Setting**.

The following is the **WSDL** port type specification of the **GetAccessControlEntries WSDL operation**.

```
<wsdl:operation name="GetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExcepti
onFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the specified MetadataObject , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.21.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage	The request WSDL message for the GetAccessControlEntries WSDL operation .
BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage	The response WSDL message for the

Message	Description
	GetAccessControlEntries WSDL operation.

3.1.4.21.1.1 BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage

The request **WSDL message** for the **GetAccessControlEntries WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries
```

The **SOAP body** contains the **GetAccessControlEntries** element.

3.1.4.21.1.2 BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage

The response **WSDL message** for the **GetAccessControlEntries WSDL operation**.

The **SOAP body** contains the **GetAccessControlEntriesResponse** element.

3.1.4.21.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAccessControlEntries	The input data for the GetAccessControlEntries WSDL operation .
GetAccessControlEntriesResponse	The result data for the GetAccessControlEntries WSDL operation .

3.1.4.21.2.1 GetAccessControlEntries

The **GetAccessControlEntries** element specifies the input data for the **GetAccessControlEntries WSDL operation**.

```
<xs:element name="GetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

settingId: The **Setting** from which to return the ACEs.

fallback: Specifies whether to retrieve ACEs from the default **Setting** if **ACEs** do not exist in the specified **Setting**.

3.1.4.21.2 GetAccessControlEntriesResponse

The **GetAccessControlEntriesResponse** element specifies the result data for the **GetAccessControlEntries** **WSDL operation**.

```
<xs:element name="GetAccessControlEntriesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAccessControlEntriesResult" nillable="true"
        type="q5:ArrayOfAccessControlEntryStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAccessControlEntriesResult: The list of ACEs.

3.1.4.21.3 Complex Types

None.

3.1.4.21.4 Simple Types

None.

3.1.4.21.5 Attributes

None.

3.1.4.21.6 Groups

None.

3.1.4.21.7 Attribute Groups

None.

3.1.4.22 GetActionById

The **GetActionById** operation retrieves the specified **Action**.

The following is the **WSDL** port type specification of the **GetActionById** **WSDL operation**.

```
<wsdl:operation name="GetActionById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById"
    message="tns:BusinessDataCatalogSharedService_GetActionById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse"
  </wsdl:output>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_GetActionById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Action does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.22.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetActionById_InputMessage	The request WSDL message for the GetActionById WSDL operation .
BusinessDataCatalogSharedService_GetActionById_OutputMessage	The response WSDL message for the GetActionById WSDL operation .

3.1.4.22.1.1 BusinessDataCatalogSharedService_GetActionById_InputMessage

The request **WSDL message** for the **GetActionById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById
```

The **SOAP body** contains the **GetActionById** element.

3.1.4.22.1.2 BusinessDataCatalogSharedService_GetActionById_OutputMessage

The response **WSDL message** for the **GetActionById WSDL operation**.

The **SOAP body** contains the **GetActionByIdResponse** element.

3.1.4.22.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionById	The input data for the GetActionById WSDL operation .
GetActionByIdResponse	The result data for the GetActionById WSDL operation .

3.1.4.22.2.1 GetActionById

The **GetActionById** element specifies the input data for the **GetActionById WSDL operation**.

```
<xs:element name="GetActionById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

actionId: The **MetadataObjectId** of the **Action**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if the specified **Action** exists. If the specified **Action** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetActionByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.22.2 GetActionByIdResponse

The **GetActionByIdResponse** element specifies the result data for the **GetActionById WSDL operation**.

```
<xs:element name="GetActionByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="q5:ActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionByIdResult: The **Action**. The **partition** of this **Action** MUST be the partition of the protocol client.

3.1.4.22.3 Complex Types

None.

3.1.4.22.4 Simple Types

None.

3.1.4.22.5 Attributes

None.

3.1.4.22.6 Groups

None.

3.1.4.22.7 Attribute Groups

None.

3.1.4.23 GetActionParameterById

The **GetActionParameterById** operation retrieves the specified **ActionParameter**.

The following is the **WSDL** port type specification of the **GetActionParameterById WSDL operation**.

```
<wsdl:operation name="GetActionParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse"
/>
```

```

message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionParameterById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified ActionParameter does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.23.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetActionParameterById_InputMessage	The request WSDL message for the GetActionParameterById WSDL operation .
BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage	The response WSDL message for the GetActionParameterById WSDL operation .

3.1.4.23.1.1 BusinessDataCatalogSharedService_GetActionParameterById_InputMessage

The request **WSDL message** for the **GetActionParameterById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById
```

The **SOAP body** contains the **GetActionParameterById** element.

3.1.4.23.1.2 BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage

The response **WSDL message** for the **GetActionParameterById WSDL operation**.

The **SOAP body** contains the **GetActionParameterByIdResponse** element.

3.1.4.23.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionParameterById	The input data for the GetActionParameterById WSDL operation .
GetActionParameterByIdResponse	The result data for the GetActionParameterById WSDL operation .

3.1.4.23.2.1 GetActionParameterById

The **GetActionParameterById** element specifies the input data for the **GetActionParameterById WSDL operation**.

```
<xs:element name="GetActionParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

actionParameterId: The **MetadataObjectId** of the **ActionParameter**.

performErrorCheck: The value of this element **MUST** be ignored by the protocol server if the specified **ActionParameter** exists. If the specified **ActionParameter** does not exist and this element is set to "false", the protocol server **MUST** set the value of the **GetActionParameterByIdResult** element to **NULL**.

partitionId: The **partition** of the protocol client.

3.1.4.23.2 GetActionParameterByIdResponse

The **GetActionParameterByIdResponse** element specifies the result data for the **GetActionParameterById** **WSDL operation**.

```
<xs:element name="GetActionParameterByIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetActionParameterByIdResult" nillable="true" type="q5:ActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionParameterByIdResult: The **ActionParameter**. The **partition** of this **ActionParameter** **MUST** be the partition of the protocol client.

3.1.4.23.3 Complex Types

None.

3.1.4.23.4 Simple Types

None.

3.1.4.23.5 Attributes

None.

3.1.4.23.6 Groups

None.

3.1.4.23.7 Attribute Groups

None.

3.1.4.24 GetActionParametersForAction

The **GetActionParametersForAction** operation retrieves the **ActionParameters** of the specified **Action**.

The following is the **WSDL** port type specification of the **GetActionParametersForAction WSDL operation**.

```
<wsdl:operation name="GetActionParametersForAction"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace)	The specified MetadataObjectId is set to

Error complex type	Condition
http://schemas.datacontract.org/2004/07/System	zero ("0").<50>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Action does not exist. <51>

3.1.4.24.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage	The request WSDL message for the GetActionParametersForAction WSDL operation .
BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage	The response WSDL message for the GetActionParametersForAction WSDL operation .

3.1.4.24.1.1 BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage

The request **WSDL message** for the **GetActionParametersForAction WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction
```

The **SOAP body** contains the **GetActionParametersForAction** element.

3.1.4.24.1.2 BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage

The response **WSDL message** for the **GetActionParametersForAction WSDL operation**.

The **SOAP body** contains the **GetActionParametersForActionResponse** element.

3.1.4.24.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionParametersForAction	The input data for the GetActionParametersForAction WSDL operation .
GetActionParametersForActionResponse	The result data for the GetActionParametersForAction WSDL

Element	Description
	operation.

3.1.4.24.2.1 GetActionParametersForAction

The **GetActionParametersForAction** element specifies the input data for the **GetActionParametersForAction WSDL operation**.

```
<xs:element name="GetActionParametersForAction" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

actionId: The **MetadataObjectId** of the **Action**.

partitionId: The **partition** of the protocol client.

3.1.4.24.2.2 GetActionParametersForActionResponse

The **GetActionParametersForActionResponse** element specifies the result data for the **GetActionParametersForAction WSDL operation**.

```
<xs:element name="GetActionParametersForActionResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParametersForActionResult" nillable="true"
type="q5:ArrayOfActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionParametersForActionResult: The list of **ActionParameters** that are contained by the specified **Action**. The **partition** of these **ActionParameters** MUST be the partition of the protocol client.

3.1.4.24.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfActionParameterStruct	Contains a list of ActionParameters for an Action .

3.1.4.24.3.1 ArrayOfActionParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of **ActionParameters**.

```
<xs:complexType name="ArrayOfActionParameterStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="q5:ActionParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActionParameterStruct: An **ActionParameter** of an **Action**.

3.1.4.24.4 Simple Types

None.

3.1.4.24.5 Attributes

None.

3.1.4.24.6 Groups

None.

3.1.4.24.7 Attribute Groups

None.

3.1.4.25 GetActionsForEntity

The **GetActionsForEntity** operation retrieves the **Actions** of the specified **Entity**.

The following is the **WSDL** port type specification of the **GetActionsForEntity WSDL operation**.

```
<wsdl:operation name="GetActionsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeException
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_Fault
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist. <52>

3.1.4.25.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage	The request WSDL message for the GetActionsForEntity WSDL operation .
BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage	The response WSDL message for the GetActionsForEntity WSDL operation .

3.1.4.25.1.1 BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage

The request **WSDL message** for the **GetActionsForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity
```

The **SOAP body** contains the **GetActionsForEntity** element.

3.1.4.25.1.2 BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage

The response **WSDL message** for the **GetActionsForEntity WSDL operation**.

The **SOAP body** contains the **GetActionsForEntityResponse** element.

3.1.4.25.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetActionsForEntity	The input data for the GetActionsForEntity WSDL operation .
GetActionsForEntityResponse	The result data for the GetActionsForEntity WSDL operation .

3.1.4.25.2.1 GetActionsForEntity

The **GetActionsForEntity** element specifies the input data for the **GetActionsForEntity WSDL operation**.

```
<xs:element name="GetActionsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

partitionId: The **partition** of the protocol client.

3.1.4.25.2.2 GetActionsForEntityResponse

The **GetActionsForEntityResponse** element specifies the result data for the **GetActionsForEntity WSDL operation**.

```
<xs:element name="GetActionsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetActionsForEntityResult" nillable="true" type="q5:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

GetActionsForEntityResult: The list of **Actions** that are contained by the specified **Entity**. The **partition** of each of these **Actions** MUST be the partition of the protocol client.

3.1.4.25.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfActionStruct	Contains a list of Actions .

3.1.4.25.3.1 ArrayOfActionStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of **Actions**.

```
<xs:complexType name="ArrayOfActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
      type="q5:ActionStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActionStruct: An **Action** of an **Entity**.

3.1.4.25.4 Simple Types

None.

3.1.4.25.5 Attributes

None.

3.1.4.25.6 Groups

None.

3.1.4.25.7 Attribute Groups

None.

3.1.4.26 GetAllLocalizedNames

The **GetAllLocalizedNames** operation retrieves all **localized names** of the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **GetAllLocalizedNames WSDL operation**.

```
<wsdl:operation name="GetAllLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist. <53>

3.1.4.26.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage	The request WSDL message for the GetAllLocalizedNames WSDL operation .
BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage	The response WSDL message for the GetAllLocalizedNames WSDL operation .

3.1.4.26.1.1 BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage

The request **WSDL message** for the **GetAllLocalizedNames WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames
```

The **SOAP body** contains the **GetAllLocalizedNames** element.

3.1.4.26.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage

The response **WSDL message** for the **GetAllLocalizedNames WSDL operation**.

The **SOAP body** contains the **GetAllLocalizedNamesResponse** element.

3.1.4.26.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllLocalizedNames	The input data for the GetAllLocalizedNames WSDL operation .
GetAllLocalizedNamesResponse	The result data for the GetAllLocalizedNames WSDL operation .

3.1.4.26.2.1 GetAllLocalizedNames

The **GetAllLocalizedNames** element specifies the input data for the **GetAllLocalizedNames WSDL operation**.

```
<xs:element name="GetAllLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>
```

```

<xs:sequence>
  <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
  <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
  <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

metadataObjectId: The **MetadataObjectId** of the **MetadataObject**.

partitionId: The **partition** of the protocol client.

settingId: The **Setting** from which to return the **localized names**.

merged: Specifies whether the default **Setting** is to be considered in the operation when the *settingId* parameter is not NULL. The value MUST one of those in the following table.

Value	Description
true	The protocol server MUST include the localized names from the default Setting and the specified Setting . If a localized name for a given LCID exists for both the default Setting and the specified Setting , only the localized name from the specified Setting MUST be returned.
false	The protocol server MUST return the localized names only for the specified Setting .

3.1.4.26.2.2 GetAllLocalizedNamesResponse

The **GetAllLocalizedNamesResponse** element specifies the result data for the **GetAllLocalizedNames WSDL operation**.

```

<xs:element name="GetAllLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="q5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAllLocalizedNamesResult: The list of **localized names** of the specified **MetadataObject**.

3.1.4.26.3 Complex Types

None.

3.1.4.26.4 Simple Types

None.

3.1.4.26.5 Attributes

None.

3.1.4.26.6 Groups

None.

3.1.4.26.7 Attribute Groups

None.

3.1.4.27 GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** operation retrieves all **localized names** of the specified **MetadataObject** for the specified **Setting**.

The following is the **WSDL** port type specification of the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

```
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inp
utMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Out
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bdc
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inv
alidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```



```

edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNamesForMetadataObjectStruct MetadataExceptionStateFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObject_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObject_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist. <54>

3.1.4.27.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage	The request WSDL message for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .
BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage	The response WSDL message for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .

3.1.4.27.1.1 BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage

The request **WSDL message** for the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct

```

The **SOAP body** contains the **GetAllLocalizedNamesForMetadataObjectStruct** element.

3.1.4.27.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage

The response **WSDL message** for the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

The **SOAP body** contains the **GetAllLocalizedNamesForMetadataObjectStructResponse** element.

3.1.4.27.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllLocalizedNamesForMetadataObjectStruct	The input data for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .
GetAllLocalizedNamesForMetadataObjectStructResponse	The result data for the GetAllLocalizedNamesForMetadataObjectStruct WSDL operation .

3.1.4.27.2.1 GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** element specifies the input data for the **GetAllLocalizedNamesForMetadataObjectStruct WSDL operation**.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** for which the operation MUST return the **localized names**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

settingId: The **Setting** from which to return the localized names.

merged: Specifies whether the default **Setting** is to be considered in the operation if the *settingId* parameter is not NULL. The value MUST be one of those in the following table.

Value	Description
true	The protocol server MUST include a localized name from the default Setting if a localized name with the same language code identifier (LCID) does not exist for the specified Setting .

Value	Description
false	The protocol server MUST return the localized names only for the specified Setting .

3.1.4.27.2 GetAllLocalizedNamesForMetadataObjectStructResponse

The **GetAllLocalizedNamesForMetadataObjectStructResponse** element specifies the result data for the **GetAllLocalizedNamesForMetadataObjectStruct** **WSDL operation**.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllLocalizedNamesForMetadataObjectStructResult: The list of **localized names** of the specified **MetadataObject**.

3.1.4.27.3 Complex Types

None.

3.1.4.27.4 Simple Types

None.

3.1.4.27.5 Attributes

None.

3.1.4.27.6 Groups

None.

3.1.4.27.7 Attribute Groups

None.

3.1.4.28 GetAllPartitionIds

The **GetAllPartitionIds** operation retrieves all distinct **partition** identifiers.

The following is the **WSDL** port type specification of the **GetAllPartitionIds** **WSDL operation**.

```
<wsdl:operation name="GetAllPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIds"
```

```

message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage** response message unless any faults occur.

3.1.4.28.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage	The request WSDL message for the GetAllPartitionIds WSDL operation .
BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage	The response WSDL message for the GetAllPartitionIds WSDL operation .

3.1.4.28.1.1 BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage

The request **WSDL message** for the **GetAllPartitionIds WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
AllPartitionIds

```

The **SOAP body** contains the **GetAllPartitionIds** element.

3.1.4.28.1.2 BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage

The response **WSDL message** for the **GetAllPartitionIds WSDL operation**.

The **SOAP body** contains the **GetAllPartitionIdsResponse** element.

3.1.4.28.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllPartitionIds	The input data for the GetAllPartitionIds WSDL operation .
GetAllPartitionIdsResponse	The result data for the GetAllPartitionIds WSDL operation .

3.1.4.28.2.1 GetAllPartitionIds

The **GetAllPartitionIds** element specifies the input data for the **GetAllPartitionIds WSDL operation**.

```
<xs:element name="GetAllPartitionIds" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.28.2.2 GetAllPartitionIdsResponse

The **GetAllPartitionIdsResponse** element specifies the result data for the **GetAllPartitionIds WSDL operation**.

```
<xs:element name="GetAllPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q9:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllPartitionIdsResult: The list of **partition** identifiers.

3.1.4.28.3 Complex Types

None.

3.1.4.28.4 Simple Types

None.

3.1.4.28.5 Attributes

None.

3.1.4.28.6 Groups

None.

3.1.4.28.7 Attribute Groups

None.

3.1.4.29 GetAllProperties

The **GetAllProperties** operation retrieves all **Properties** of the specified **MetadataObject** and the specified **Setting**.

The following is the **WSDL** port type specification of the **GetAllProperties WSDL operation**.

```
<wsdl:operation name="GetAllProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllProperties_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllProperties_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the specified MetadataObject , the MetadataObject is a LobSystem or LobSystemInstance , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.29.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllProperties_InputMessage	The request WSDL message for the GetAllProperties WSDL operation .
BusinessDataCatalogSharedService_GetAllProperties_OutputMessage	The response WSDL message for the GetAllProperties WSDL operation .

3.1.4.29.1.1 BusinessDataCatalogSharedService_GetAllProperties_InputMessage

The request **WSDL message** for the **GetAllProperties WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties
```

The **SOAP body** contains the **GetAllProperties** element.

3.1.4.29.1.2 BusinessDataCatalogSharedService_GetAllProperties_OutputMessage

The response **WSDL message** for the **GetAllProperties WSDL operation**.

The **SOAP body** contains the **GetAllPropertiesResponse** element.

3.1.4.29.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllProperties	The input data for the GetAllProperties WSDL operation .
GetAllPropertiesResponse	The result data for the GetAllProperties WSDL operation .

3.1.4.29.2.1 GetAllProperties

The **GetAllProperties** element specifies the input data for the **GetAllProperties WSDL operation**.

```
<xs:element name="GetAllProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The **MetadataObjectId** of the **MetadataObject**.

partitionId: The **partition** of the protocol client.

settingId: The **Setting** from which to return the **Properties**.

merged: The value MUST be ignored by the protocol server if no **Setting** is specified. If a **Setting** is specified, the value of this element MUST be set to "true" for the **Properties** in the default **Setting** to be returned in addition to the **Properties** in the specified **Setting**. Otherwise, the value MUST be set to "false". If this value is set to "true", a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**, the **Property** from the specified **Setting** MUST be retrieved by the protocol server, and the **Property** from the default **Setting** MUST be ignored by the protocol server.

3.1.4.29.2.2 GetAllPropertiesResponse

The **GetAllPropertiesResponse** element specifies the result data for the **GetAllProperties WSDL operation**.

```
<xs:element name="GetAllPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```



```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="q5:ArrayOfPropertyStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

GetAllPropertiesResult: The list of **Properties**.

3.1.4.29.3 Complex Types

None.

3.1.4.29.4 Simple Types

None.

3.1.4.29.5 Attributes

None.

3.1.4.29.6 Groups

None.

3.1.4.29.7 Attribute Groups

None.

3.1.4.30 GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** operation retrieves all **Properties** of the specified **MetadataObject** from the specified **Setting**.

The following is the **WSDL** port type specification of the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

```

<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct Argumen
tExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct Argumen
tNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invalid
OperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metadat
aExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the specified MetadataObject , the MetadataObject is a LoSystem or LoSystemInstance , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.30.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage	The request WSDL message for the GetAllPropertiesForMetadataObjectStruct WSDL operation .
BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage	The response WSDL message for the GetAllPropertiesForMetadataObjectStruct WSDL operation .

3.1.4.30.1.1 BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage

The request **WSDL message** for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct
```

The **SOAP body** contains the **GetAllPropertiesForMetadataObjectStruct** element.

3.1.4.30.1.2 BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage

The response **WSDL message** for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

The **SOAP body** contains the **GetAllPropertiesForMetadataObjectStructResponse** element.

3.1.4.30.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAllPropertiesForMetadataObjectStruct	The input data for the GetAllPropertiesForMetadataObjectStruct WSDL operation .
GetAllPropertiesForMetadataObjectStructResponse	The result data for the GetAllPropertiesForMetadataObjectStruct WSDL operation .

3.1.4.30.2.1 GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** element specifies the input data for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

```

<xs:element name="GetAllPropertiesForMetadataObjectStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

metadataObjectStruct: The **MetadataObject**. The **partition** of this MetadataObject MUST be the partition of the protocol client.

settingId: The **Setting** from which to return the **Properties**.

merged: The value MUST be ignored by the protocol server if no **Setting** is specified. If a **Setting** is specified, the value of this element MUST be set to "true" for the **Properties** in the default **Setting** to be returned in addition to the **Properties** in the specified **Setting**. Otherwise, the value MUST be set to "false". If this value is set to "true", a **Setting** is specified, and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**, the **Property** from the specified **Setting** MUST be retrieved by the protocol server, and the **Property** from the default **Setting** MUST be ignored by the protocol server.

3.1.4.30.2 GetAllPropertiesForMetadataObjectStructResponse

The **GetAllPropertiesForMetadataObjectStructResponse** element specifies the result data for the **GetAllPropertiesForMetadataObjectStruct WSDL operation**.

```

<xs:element name="GetAllPropertiesForMetadataObjectStructResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAllPropertiesForMetadataObjectStructResult: The list of **Properties**.

3.1.4.30.3 Complex Types

None.

3.1.4.30.4 Simple Types

None.

3.1.4.30.5 Attributes

None.

3.1.4.30.6 Groups

None.

3.1.4.30.7 Attribute Groups

None.

3.1.4.31 GetAssociationById

The **GetAssociationById** operation retrieves the **Association** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetAssociationById WSDL operation**.

```
<wsdl:operation name="GetAssociationById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section

2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExcepi onState (from namespace Microsoft.SharePoint.BusinessData)	An Association with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.31.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationById_InputMessage	The request WSDL message for the GetAssociationById WSDL operation .
BusinessDataCatalogSharedService_GetAssociationById_OutputMessage	The response WSDL message for the GetAssociationById WSDL operation .

3.1.4.31.1.1 BusinessDataCatalogSharedService_GetAssociationById_InputMessage

The request **WSDL message** for the **GetAssociationById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById
```

The **SOAP body** contains the **GetAssociationById** element.

3.1.4.31.1.2 BusinessDataCatalogSharedService_GetAssociationById_OutputMessage

The response **WSDL message** for the **GetAssociationById WSDL operation**.

The **SOAP body** contains the **GetAssociationByIdResponse** element.

3.1.4.31.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationById	The input data for the GetAssociationById WSDL operation .
GetAssociationByIdResponse	The result data for the GetAssociationById WSDL operation .

3.1.4.31.2.1 GetAssociationById

The **GetAssociationById** element specifies the input data for the **GetAssociationById WSDL operation**.

```
<xs:element name="GetAssociationById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** of the **Association**.

performErrorCheck: The value MUST be ignored by the protocol server if an **Association** with the specified **MetadataObjectId** exists. If an **Association** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetAssociationByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.31.2.2 GetAssociationByIdResponse

The **GetAssociationByIdResponse** element specifies the result data for the **GetAssociationById WSDL operation**.

```
<xs:element name="GetAssociationByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="q5:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationByIdResult: The **Association**. The **partition** of this **Association** MUST be the partition of the protocol client.

3.1.4.31.3 Complex Types

None.

3.1.4.31.4 Simple Types

None.

3.1.4.31.5 Attributes

None.

3.1.4.31.6 Groups

None.

3.1.4.31.7 Attribute Groups

None.

3.1.4.32 GetAssociationGroupById

The **GetAssociationGroupById** operation retrieves the **AssociationGroup** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetAssociationGroupById WSDL operation**.

```
<wsdl:operation name="GetAssociationGroupById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```


</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An AssociationGroup with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.32.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage	The request WSDL message for the GetAssociationGroupById WSDL operation .
BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage	The response WSDL message for the GetAssociationGroupById WSDL operation .

3.1.4.32.1.1 BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage

The request **WSDL message** for the **GetAssociationGroupById WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById>

The **SOAP body** contains the **GetAssociationGroupById** element.

3.1.4.32.1.2 BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage

The response **WSDL message** for the **GetAssociationGroupById WSDL operation**.

The **SOAP body** contains the **GetAssociationGroupByIdResponse** element.

3.1.4.32.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationGroupById	The input data for the GetAssociationGroupById WSDL operation .
GetAssociationGroupByIdResponse	The result data for the GetAssociationGroupById WSDL operation .

3.1.4.32.2.1 GetAssociationGroupById

The **GetAssociationGroupById** element specifies the input data for the **GetAssociationGroupById WSDL operation**.

```
<xs:element name="GetAssociationGroupById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationGroupId: The **MetadataObjectId** of the **AssociationGroup**.

performErrorCheck: The value MUST be ignored by the protocol server if an **AssociationGroup** with the specified **MetadataObjectId** exists. If **AssociationGroup** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetAssociationGroupByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.32.2.2 GetAssociationGroupByIdResponse

The **GetAssociationGroupByIdResponse** element specifies the result data for the **GetAssociationGroupById WSDL operation**.

```
<xs:element name="GetAssociationGroupByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupByIdResult" nillable="true" type="q5:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationGroupByIdResult: The **AssociationGroup**. The **partition** of this **AssociationGroup** MUST be the partition of the protocol client.

3.1.4.32.3 Complex Types

None.

3.1.4.32.4 Simple Types

None.

3.1.4.32.5 Attributes

None.

3.1.4.32.6 Groups

None.

3.1.4.32.7 Attribute Groups

None.

3.1.4.33 GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** operation retrieves the **AssociationGroups** of the **Entity** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetAssociationGroupsForEntity WSDL operation**.

```
<wsdl:operation name="GetAssociationGroupsForEntity"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity BdcExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"). <55>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified MetadataObjectId does not exist. <56>

3.1.4.33.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage	The request WSDL message for the GetAssociationGroupsForEntity WSDL operation .
BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage	The response WSDL message for the GetAssociationGroupsForEntity WSDL operation .

3.1.4.33.1.1 BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage

The request **WSDL message** for the **GetAssociationGroupsForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity
```

The **SOAP body** contains the **GetAssociationGroupsForEntity** element.

3.1.4.33.1.2 BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage

The response **WSDL message** for the **GetAssociationGroupsForEntity WSDL operation**.

The **SOAP body** contains the **GetAssociationGroupsForEntityResponse** element.

3.1.4.33.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationGroupsForEntity	The input data for the GetAssociationGroupsForEntity WSDL operation .
GetAssociationGroupsForEntityResponse	The result data for the GetAssociationGroupsForEntity WSDL operation .

3.1.4.33.2.1 GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** element specifies the input data for the **GetAssociationGroupsForEntity WSDL operation**.

```
<xs:element name="GetAssociationGroupsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

partitionId: The **partition** of the protocol client.

3.1.4.33.2.2 GetAssociationGroupsForEntityResponse

The **GetAssociationGroupsForEntityResponse** element specifies the result data for the **GetAssociationGroupsForEntity WSDL operation**.

```
<xs:element name="GetAssociationGroupsForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="q5:ArrayOfAssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GetAssociationGroupsForEntityResult: The list of **AssociationGroups**. The **partition** of each **AssociationGroup** in the list MUST be the partition of the protocol client.

3.1.4.33.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfAssociationGroupStruct	Contains a list of AssociationGroups .

3.1.4.33.3.1 ArrayOfAssociationGroupStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of **AssociationGroups**.

```

<xs:complexType name="ArrayOfAssociationGroupStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="q5:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>

```

AssociationGroupStruct: An **AssociationGroup**.

3.1.4.33.4 Simple Types

None.

3.1.4.33.5 Attributes

None.

3.1.4.33.6 Groups

None.

3.1.4.33.7 Attribute Groups

None.

3.1.4.34 GetAssociationMembersInRole

The **GetAssociationMembersInRole** operation retrieves the source or destination **Entities** of the specified **Association**.

The following is the **WSDL** port type specification of the **GetAssociationMembersInRole WSDL operation**.

```
<wsdl:operation name="GetAssociationMembersInRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace	The specified

Error complex type	Condition
http://schemas.datacontract.org/2004/07/System	MetadataObjectId is set to zero ("0"), or the value of the role parameter is not zero ("0") or "1".
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Association does not exist, or refers to one or more nonexistent Entities , or refers to one or more empty Entities or null.

3.1.4.34.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage	The request WSDL message for the GetAssociationMembersInRole WSDL operation .
BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage	The response WSDL message for the GetAssociationMembersInRole WSDL operation .

3.1.4.34.1.1 BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage

The request **WSDL message** for the **GetAssociationMembersInRole WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole
```

The **SOAP body** contains the **GetAssociationMembersInRole** element.

3.1.4.34.1.2 BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage

The response **WSDL message** for the **GetAssociationMembersInRole WSDL operation**.

The **SOAP body** contains the **GetAssociationMembersInRoleResponse** element.

3.1.4.34.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationMembersInRole	The input data for the GetAssociationMembersInRole WSDL operation .
GetAssociationMembersInRoleResponse	The result data for the GetAssociationMembersInRole WSDL operation .

3.1.4.34.2.1 GetAssociationMembersInRole

The **GetAssociationMembersInRole** element specifies the input data for the **GetAssociationMembersInRole WSDL operation**.

```
<xs:element name="GetAssociationMembersInRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** of the **Association**.

role: A bit that specifies whether to return source or destination **Entities** from the **Association**. The following table describes possible values.

Value	Description
0	Only source Entities are returned.
1	Only destination Entities are returned.

partitionId: The **partition** of the protocol client.

3.1.4.34.2.2 GetAssociationMembersInRoleResponse

The **GetAssociationMembersInRoleResponse** element specifies the result data for the **GetAssociationMembersInRole WSDL operation**.

```
<xs:element name="GetAssociationMembersInRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="q5:ArrayOfAssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationMembersInRoleResult: The list of source or destination **Entities**.

3.1.4.34.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfAssociationMemberStruct	Contains a list of relationships between Entities and Associations .
AssociationMemberStruct	Contains information about a specific relationship of an Entity and Association.

3.1.4.34.3.1 ArrayOfAssociationMemberStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationship between **Entities** and **Associations**.

```
<xs:complexType name="ArrayOfAssociationMemberStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="q5:AssociationMemberStruct"/>
  </xs:sequence>
</xs:complexType>
```

AssociationMemberStruct: Contains information about the relationship between an **Entity** and an **Association**.

3.1.4.34.3.2 AssociationMemberStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an **Entity** and an **Association**.

```
<xs:complexType name="AssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
```

_entityName: The name of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be NULL. Otherwise, this value MUST have at least 1 and at most 255 **Unicode** characters.

_entityNamespace: The namespace of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be NULL. Otherwise, the value MUST have at least 1 and at most 255 Unicode characters.

associationId: The **MetadataObjectId** of the **Association** referencing the **Entity**. The value of this element MUST be in the range 1-0x7fffffff.

entityId: The **MetadataObjectId** of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be in the range 1-0x7fffffff. Otherwise, the value MUST be zero.

partitionId: The **partition** of the **Association**.

role: Specifies whether the **Entity** is a source or the destination of the **Association**. The following table describes possible values.

Value	Description
0	The Entity is a source of the Association .
1	The Entity is the destination of the Association .

3.1.4.34.4 Simple Types

None.

3.1.4.34.5 Attributes

None.

3.1.4.34.6 Groups

None.

3.1.4.34.7 Attribute Groups

None.

3.1.4.35 GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** operation retrieves the **AssociationReferences** contained by the specified **AssociationGroup**.

The following is the **WSDL** port type specification of the **GetAssociationReferencesForAssociationGroup WSDL operation**.

```
<wsdl:operation name="GetAssociationReferencesForAssociationGroup"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup"
    message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse"
    message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bdc
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
validOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Met
adataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationGroup does not exist. <57>

3.1.4.35.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage	The request WSDL message for the GetAssociationReferencesForAssociationGroup WSDL operation .
BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage	The response WSDL message for the GetAssociationReferencesForAssociationGroup WSDL operation .

3.1.4.35.1.1 BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage

The request **WSDL message** for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

The **SOAP action** value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup`

The **SOAP body** contains the **GetAssociationReferencesForAssociationGroup** element.

3.1.4.35.1.2 BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage

The response **WSDL message** for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

The **SOAP body** contains the **GetAssociationReferencesForAssociationGroupResponse** element.

3.1.4.35.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationReferencesForAssociationGroup	The input data for the GetAssociationReferencesForAssociationGroup WSDL operation .
GetAssociationReferencesForAssociationGroupResponse	The result data for the GetAssociationReferencesForAssociationGroup WSDL operation .

3.1.4.35.2.1 GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** element specifies the input data for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

```

<xs:element name="GetAssociationReferencesForAssociationGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

associationGroupId: The **MetadataObjectId** of the **AssociationGroup**.

partitionId: The **partition** of the protocol client.

3.1.4.35.2.2 GetAssociationReferencesForAssociationGroupResponse

The **GetAssociationReferencesForAssociationGroupResponse** element specifies the result data for the **GetAssociationReferencesForAssociationGroup WSDL operation**.

```

<xs:element name="GetAssociationReferencesForAssociationGroupResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="q5:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationReferencesForAssociationGroupResult: The list of **AssociationReferences**. The **partition** of each **AssociationReference** in the list MUST be the partition of the protocol client.

3.1.4.35.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfAssociationReferenceStruct	Contains a list of AssociationReferences .

3.1.4.35.3.1 ArrayOfAssociationReferenceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type contains a list of **AssociationReferences**.

```

<xs:complexType name="ArrayOfAssociationReferenceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="q5:AssociationReferenceStruct"/>
  </xs:sequence>
</xs:complexType>

```

AssociationReferenceStruct: An **AssociationReference**.

3.1.4.35.4 Simple Types

None.

3.1.4.35.5 Attributes

None.

3.1.4.35.6 Groups

None.

3.1.4.35.7 Attribute Groups

None.

3.1.4.36 GetAssociationsForDataClass

The **GetAssociationsForDataClass** operation retrieves the **Associations** that are contained by the specified **DataClass**.

The following is the **WSDL** port type specification of the **GetAssociationsForDataClass WSDL operation**.

```
<wsdl:operation name="GetAssociationsForDataClass"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
      wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse"
      message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"
      xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
      <wsdl:fault
        wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
        message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault FaultMessage"
        xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
        <wsdl:fault
          wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault"
          name="ArgumentNullExceptionFault"
          message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault FaultMessage"
          xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          <wsdl:fault
            wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
            name="ArgumentOutOfRangeExceptionFault"
            message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault FaultMessage"
            xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
            <wsdl:fault
              wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
              message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault FaultMessage"
              xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
              <wsdl:fault
                wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault"
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExc
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist. <58>

3.1.4.36.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage	The request WSDL message for the GetAssociationsForDataClass WSDL operation .
BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage	The response WSDL message for the GetAssociationsForDataClass WSDL operation .

3.1.4.36.1.1 BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage

The request **WSDL message** for the **GetAssociationsForDataClass WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass

The **SOAP body** contains the **GetAssociationsForDataClass** element.

3.1.4.36.1.2 BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage

The response **WSDL message** for the **GetAssociationsForDataClass WSDL operation**.

The **SOAP body** contains the **GetAssociationsForDataClassResponse** element.

3.1.4.36.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationsForDataClass	The input data for the GetAssociationsForDataClass WSDL operation .
GetAssociationsForDataClassResponse	The result data for the GetAssociationsForDataClass WSDL operation .

3.1.4.36.2.1 GetAssociationsForDataClass

The **GetAssociationsForDataClass** element specifies the input data for the **GetAssociationsForDataClass WSDL operation**.

```
<xs:element name="GetAssociationsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**. The value of this element MUST be in the range from 1 through 0x7fffffff.

partitionId: The **partition** of the protocol client.

3.1.4.36.2.2 GetAssociationsForDataClassResponse

The **GetAssociationsForDataClassResponse** element specifies the result data for the **GetAssociationsForDataClass WSDL operation**.

```
<xs:element name="GetAssociationsForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

GetAssociationsForDataClassResult: The list of **Associations**. The **partition** of each of these **Associations** MUST be the partition of the protocol client.

3.1.4.36.3 Complex Types

None.

3.1.4.36.4 Simple Types

None.

3.1.4.36.5 Attributes

None.

3.1.4.36.6 Groups

None.

3.1.4.36.7 Attribute Groups

None.

3.1.4.37 GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** operation retrieves the **Associations** that reference the specified **Entity** as **Association** source or **Association** destination.

The following is the **WSDL** port type specification of the **GetAssociationsForEntityAndRole WSDL operation**.

```
<wsdl:operation name="GetAssociationsForEntityAndRole"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperatio
nExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST return with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"), or the role parameter is not set to zero ("0") or "1".
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified Entity does not exist.

3.1.4.37.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_I nputMessage	The request WSDL message for the GetAssociationsForEntityAn

Message	Description
	dRole WSDL operation.
BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage	The response WSDL message for the GetAssociationsForEntityAndRole WSDL operation.

3.1.4.37.1.1 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage

The request **WSDL message** for the **GetAssociationsForEntityAndRole WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole
```

The **SOAP body** contains the **GetAssociationsForEntityAndRole** element.

3.1.4.37.1.2 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage

The response **WSDL message** for the **GetAssociationsForEntityAndRole WSDL operation.**

The **SOAP body** contains the **GetAssociationsForEntityAndRoleResponse** element.

3.1.4.37.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationsForEntityAndRole	The input data for the GetAssociationsForEntityAndRole WSDL operation.
GetAssociationsForEntityAndRoleResponse	The result data for the GetAssociationsForEntityAndRole WSDL operation.

3.1.4.37.2.1 GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** element specifies the input data for the **GetAssociationsForEntityAndRole WSDL operation.**

```
<xs:element name="GetAssociationsForEntityAndRole"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

entityId: The **MetadataObjectId** of the **Entity**.

role: Specifies whether the **Entity** is a source or the destination of the **Association**. The following table describes possible values.

Value	Description
0	The Entity is a source of the Association .
1	The Entity is the destination of the Association .

activeOnly: Specifies whether to include the **Associations** that reference **Entities** those are not active in the result. For the purposes of this operation, an **Association** is considered to reference an **Entity** when that **Entity** is a source or the destination of the **Association**, or when the **Entity** contains the **Association**. The following table describes possible values.

Value	Description
true	Return all Associations that match the search criteria.
false	Return Associations that match the search criteria only if they do not reference an Entity that is not active.

partitionId: The **partition** of the protocol client.

3.1.4.37.2.2 GetAssociationsForEntityAndRoleResponse

The **GetAssociationsForEntityAndRoleResponse** element specifies the result data for the **GetAssociationsForEntityAndRole WSDL operation**.

```

<xs:element name="GetAssociationsForEntityAndRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForEntityAndRoleResult" nillable="true"
type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationsForEntityAndRoleResult: The list of **Associations**. The **partition** of each of these **Associations** MUST be the partition of the protocol client.

3.1.4.37.3 Complex Types

None.

3.1.4.37.4 Simple Types

None.

3.1.4.37.5 Attributes

None.

3.1.4.37.6 Groups

None.

3.1.4.37.7 Attribute Groups

None.

3.1.4.38 GetAssociationsForMethod

The **GetAssociationsForMethod** operation retrieves the **Associations** that are contained by the specified **Method**.

The following is the **WSDL** port type specification of the **GetAssociationsForMethod WSDL operation**.

```
<wsdl:operation name="GetAssociationsForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethod"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Method does not exist. <59>

3.1.4.38.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage	The request WSDL message for the GetAssociationsForMethod WSDL operation .
BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage	The response WSDL message for the GetAssociationsForMethod WSDL operation .

3.1.4.38.1.1 BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage

The request **WSDL message** for the **GetAssociationsForMethod WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
AssociationsForMethod

```

The **SOAP body** contains the **GetAssociationsForMethod** element.

3.1.4.38.1.2 BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage

The response **WSDL message** for the **GetAssociationsForMethod WSDL operation**.

The **SOAP body** contains the **GetAssociationsForMethodResponse** element.

3.1.4.38.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetAssociationsForMethod	The input data for the GetAssociationsForMethod WSDL operation .
GetAssociationsForMethodResponse	The result data for the GetAssociationsForMethod WSDL operation .

3.1.4.38.2.1 GetAssociationsForMethod

The **GetAssociationsForMethod** element specifies the input data for the **GetAssociationsForMethod WSDL operation**.

```
<xs:element name="GetAssociationsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method**. The value of this element MUST be in the range from 1 through 0x7fffffff.

partitionId: The **partition** of the protocol client.

3.1.4.38.2.2 GetAssociationsForMethodResponse

The **GetAssociationsForMethodResponse** element specifies the result data for the **GetAssociationsForMethod WSDL operation**.

```
<xs:element name="GetAssociationsForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```


GetAssociationsForMethodResult: The list of **Associations**. The **partition** of each of these **Associations** MUST be the partition of the protocol client.

3.1.4.38.3 Complex Types

None.

3.1.4.38.4 Simple Types

None.

3.1.4.38.5 Attributes

None.

3.1.4.38.6 Groups

None.

3.1.4.38.7 Attribute Groups

None.

3.1.4.39 GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** operation retrieves the cache version stamps, that were modified after the specified time.

The following is the **WSDL** port type specification of the **GetCacheInvalidationRecordsSince WSDL operation**.

```
<wsdl:operation name="GetCacheInvalidationRecordsSince"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince"
    message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse"
    message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
    name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfR
angeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatE
xceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage** response message, unless any faults occur.

3.1.4.39.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage	The request WSDL message for the GetCacheInvalidationRecordsSince WSDL operation .
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage	The response WSDL message for the GetCacheInvalidationRecordsSince WSDL operation .

3.1.4.39.1.1 BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage

The request **WSDL message** for the **GetCacheInvalidationRecordsSince WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince
```

The **SOAP body** contains the **GetCacheInvalidationRecordsSince** element.

3.1.4.39.1.2 BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage

The response **WSDL message** for the **GetCacheInvalidationRecordsSince WSDL operation**.

The **SOAP body** contains the **GetCacheInvalidationRecordsSinceResponse** element.

3.1.4.39.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetCacheInvalidationRecordsSince	The input data for the GetCacheInvalidationRecordsSince WSDL operation .
GetCacheInvalidationRecordsSinceResponse	The result data for the GetCacheInvalidationRecordsSince WSDL operation .

3.1.4.39.2.1 GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** element specifies the input data for the **GetCacheInvalidationRecordsSince WSDL operation**.

```
<xs:element name="GetCacheInvalidationRecordsSince"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dateTime: The implementation-specific timestamp to compare with the timestamp elements of the cache version stamps. This operation MUST return only cache version stamps with timestamp values greater than the specified value.

3.1.4.39.2.2 GetCacheInvalidationRecordsSinceResponse

The **GetCacheInvalidationRecordsSinceResponse** element specifies the result data for the **GetCacheInvalidationRecordsSince WSDL operation**.

```
<xs:element name="GetCacheInvalidationRecordsSinceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetCacheInvalidationRecordsSinceResult" nillable="true"
type="q5:ArrayOfCacheInvalidationRecordStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GetCacheInvalidationRecordsSinceResult: The list of cache version stamps. The **partition** of each of these cache version stamps MUST be the partition of the protocol client.

3.1.4.39.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfCacheInvalidationRecordStruct	Contains a cache version stamps.
CacheInvalidationRecordStruct	Contains information about the version stamps for the cache.

3.1.4.39.3.1 ArrayOfCacheInvalidationRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfCacheInvalidationRecordStruct** complex type contains a list of cache version stamps.

```

<xs:complexType name="ArrayOfCacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="q5:CacheInvalidationRecordStruct"/>
  </xs:sequence>
</xs:complexType>

```

CacheInvalidationRecordStruct: A cache version stamp.

3.1.4.39.3.2 CacheInvalidationRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **CacheInvalidationRecordStruct** complex type MUST contain information about the version stamps for the cache. Each row in the result set MUST represent object cache version stamp for the contents or existence of a type of **MetadataObject** specified by its **CacheLine** element. This complex type is defined as follows.

```

<xs:complexType name="CacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
    <xs:element minOccurs="0" name="counter" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>

```

cacheLine: Specifies that the information in the cache corresponds either to the contents or to the relationship to a type of **MetadataObject**. It MUST consist of one or more of the bit masks of the values from the following table.

Value	Description
0x00001	Corresponds to the contents of a LobSystem .
0x00002	Corresponds to the contents of a LobSystemInstance .
0x00004	Corresponds to the contents of a DataClass .
0x00008	Corresponds to the contents of an Entity .
0x00010	Corresponds to the contents of an Identifier .
0x00020	Corresponds to the contents of a Method .
0x00040	Corresponds to the contents of a MethodInstance .
0x00080	Corresponds to the contents of a FilterDescriptor .
0x00100	Corresponds to the contents of a Parameter .
0x00200	Corresponds to the contents of a TypeDescriptor .
0x00400	Corresponds to the contents of an Action .
0x00800	Corresponds to the contents of an ActionParameter .
0x01000	Corresponds to the contents of an Association .
0x08000	Corresponds to the contents of an AssociationGroup .
0x10000	Corresponds to the contents of a MetadataCatalog .
0x000100000	Corresponds to the relationship to a LobSystem .
0x000200000	Corresponds to the relationship to a LobSystemInstance .
0x000400000	Corresponds to the relationship to a DataClass .
0x000800000	Corresponds to the relationship to an Entity .
0x001000000	Corresponds to the relationship to an Identifier .
0x002000000	Corresponds to the relationship to a Method .
0x004000000	Corresponds to the relationship to a MethodInstance .
0x008000000	Corresponds to the relationship to a FilterDescriptor .
0x010000000	Corresponds to the relationship to a Parameter .
0x020000000	Corresponds to the relationship to a TypeDescriptor .
0x040000000	Corresponds to the relationship to an Action .
0x080000000	Corresponds to the relationship to an ActionParameter .
0x100000000	Corresponds to the relationship to an Association .
0x200000000	Corresponds to the relationship to an AssociationGroup .
0x400000000	Corresponds to the relationship to a MetadataObject .

Value	Description
0x80000000	Corresponds to the relationship to an ACE .

counter: The value representing the version of data structures or relationships of data structures tracking the changes made by the applications utilizing the protocol client.

partitionId: The **partition** of the cache version stamp.

timestamp: The implementation-specific timestamp specifying the time at which this cache version stamp was last modified.

3.1.4.39.4 Simple Types

None.

3.1.4.39.5 Attributes

None.

3.1.4.39.6 Groups

None.

3.1.4.39.7 Attribute Groups

None.

3.1.4.40 GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** operation retrieves the **TypeDescriptors** contained by the specified **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetChildTypeDescriptorsForTypeDescriptor** **WSDL operation**.

```
<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor does not exist. <60>

3.1.4.40.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage	The request WSDL message for the GetChildTypeDescriptorsForTypeDescriptor

Message	Description
	peDescriptor WSDL operation.
BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage	The response WSDL message for the GetChildTypeDescriptorsForTypeDescriptor WSDL operation.

3.1.4.40.1.1 BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetChildTypeDescriptorsForTypeDescriptor WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor
```

The **SOAP body** contains the **GetChildTypeDescriptorsForTypeDescriptor** element.

3.1.4.40.1.2 BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetChildTypeDescriptorsForTypeDescriptor WSDL operation.**

The **SOAP body** contains the **GetChildTypeDescriptorsForTypeDescriptorResponse** element.

3.1.4.40.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetChildTypeDescriptorsForTypeDescriptor	The input data for the GetChildTypeDescriptorsForTypeDescriptor WSDL operation.
GetChildTypeDescriptorsForTypeDescriptorResponse	The result data for the GetChildTypeDescriptorsForTypeDescriptor WSDL operation.

3.1.4.40.2.1 GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsForTypeDescriptor WSDL operation.**

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```



```

    <xs:sequence>
      <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

parentTypeDescriptorId: The **MetadataObjectId** of the **TypeDescriptor**.

partitionId: The **partition** of the protocol client.

3.1.4.40.2.2 GetChildTypeDescriptorsForTypeDescriptorResponse

The **GetChildTypeDescriptorsForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsForTypeDescriptor** **WSDL operation**.

```

<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetChildTypeDescriptorsForTypeDescriptorResult: The list of **TypeDescriptors**. The **partition** of each **TypeDescriptor** MUST be the partition of the protocol client.

3.1.4.40.3 Complex Types

None.

3.1.4.40.4 Simple Types

None.

3.1.4.40.5 Attributes

None.

3.1.4.40.6 Groups

None.

3.1.4.40.7 Attribute Groups

None.

3.1.4.41 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** operation retrieves the **TypeDescriptors** that reference **Identifiers** and are descendants of the specified **TypeDescriptor**. A **TypeDescriptor** is a descendent of the specified **TypeDescriptor** if the **TypeDescriptor** that contains the **TypeDescriptor** is also a descendent of the specified **TypeDescriptor** or the **TypeDescriptor** is contained by the specified **TypeDescriptor**. [<61>](#)

The following is the **WSDL** port type specification of the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** **WSDL operation**.

```
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified TypeDescriptor is set to zero ("0") <62> .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor does not exist. <63>

3.1.4.41.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage	The request WSDL message for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage	The response WSDL message for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation.

3.1.4.41.1.1 BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
```

The **SOAP body** contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element.

3.1.4.41.1.2 BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element.

3.1.4.41.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor	The input data for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse	The result data for the GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation .

3.1.4.41.2.1 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorStruct: The **TypeDescriptor**. The **partition** of the **TypeDescriptor** MUST be the partition of the protocol client.

3.1.4.41.2.2 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation**.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult: The list of **TypeDescriptors**. The **partition** of each of these **TypeDescriptors** MUST be the partition of the protocol client.

3.1.4.41.3 Complex Types

None.

3.1.4.41.4 Simple Types

None.

3.1.4.41.5 Attributes

None.

3.1.4.41.6 Groups

None.

3.1.4.41.7 Attribute Groups

None.

3.1.4.42 GetDataClassById

The **GetDataClassById** operation retrieves the **DataClass** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetDataClassById WSDL operation**.

```
<wsdl:operation name="GetDataClassById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetDataClassById"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetDataClassByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMe
    ssaage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fau
    ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFau
    lt_Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMe
    ssaage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById InvalidOperationExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById MetadataExceptionStateFault Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetDataClassById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDataClassById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A DataClass with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.42.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetDataClassById_InputMessage	The request WSDL message for the GetDataClassById WSDL operation .
BusinessDataCatalogSharedService_GetDataClassById_OutputMessage	The response WSDL message for the GetDataClassById WSDL operation .

3.1.4.42.1.1 BusinessDataCatalogSharedService_GetDataClassById_InputMessage

The request **WSDL message** for the **GetDataClassById WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
DataClassById

```

The **SOAP body** contains the **GetDataClassById** element.

3.1.4.42.1.2 BusinessDataCatalogSharedService_GetDataClassById_OutputMessage

The response **WSDL message** for the **GetDataClassById WSDL operation**.

The **SOAP body** contains the **GetDataClassByIdResponse** element.

3.1.4.42.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetDataClassById	The input data for the GetDataClassById WSDL operation .
GetDataClassByIdResponse	The result data for the GetDataClassById WSDL operation .

3.1.4.42.2.1 GetDataClassById

The **GetDataClassById** element specifies the input data for the **GetDataClassById WSDL operation**.

```
<xs:element name="GetDataClassById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **DataClass** with the specified **MetadataObjectId** exists. If a **DataClass** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.42.2.2 GetDataClassByIdResponse

The **GetDataClassByIdResponse** element specifies the result data for the **GetDataClassById WSDL operation**.

```
<xs:element name="GetDataClassByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="q5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetDataClassByIdResult: The **DataClass**. The **partition** of this **DataClass** MUST be the partition of the protocol client.

3.1.4.42.3 Complex Types

None.

3.1.4.42.4 Simple Types

None.

3.1.4.42.5 Attributes

None.

3.1.4.42.6 Groups

None.

3.1.4.42.7 Attribute Groups

None.

3.1.4.43 GetDataClassesForSystem

The **GetDataClassesForSystem** operation retrieves **DataClasses** contained by the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetDataClassesForSystem WSDL operation**.

```
<wsdl:operation name="GetDataClassesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem"
    message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
```



```

message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExcepti
onFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist. <64>

3.1.4.43.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage	The request WSDL message for the GetDataClassesForSystem WSDL operation .
BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage	The response WSDL message for the GetDataClassesForSystem WSDL operation .

3.1.4.43.1.1 BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage

The request **WSDL message** for the **GetDataClassesForSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem
```

The **SOAP body** contains the **GetDataClassesForSystem** element.

3.1.4.43.1.2 BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage

The response **WSDL message** for the **GetDataClassesForSystem WSDL operation**.

The **SOAP body** contains the **GetDataClassesForSystemResponse** element.

3.1.4.43.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetDataClassesForSystem	The input data for the GetDataClassesForSystem WSDL operation .
GetDataClassesForSystemResponse	The result data for the GetDataClassesForSystem WSDL operation .

3.1.4.43.2.1 GetDataClassesForSystem

The **GetDataClassesForSystem** element specifies the input data for the **GetDataClassesForSystem WSDL operation**.

```
<xs:element name="GetDataClassesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

activeOnly: Specifies the **DataClasses** to return. If this element is set to "true", only the active **DataClasses** MUST be returned. Otherwise, this operation MUST return **DataClasses** contained by the specified **LobSystem**, regardless of their active status.

partitionId: The **partition** of the protocol client.

3.1.4.43.2.2 GetDataClassesForSystemResponse

The **GetDataClassesForSystemResponse** element specifies the result data for the **GetDataClassesForSystem WSDL operation**.

```

<xs:element name="GetDataClassesForSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassesForSystemResult" nillable="true" type="q5:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetDataClassesForSystemResult: The list of **DataClasses**. The **partition** of each of these **DataClasses** MUST be the partition of the protocol client.

3.1.4.43.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfDataClassStruct	Contains a list of DataClasses .

3.1.4.43.3.1 ArrayOfDataClassStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list of **DataClasses**.

```

<xs:complexType name="ArrayOfDataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="q5:DataClassStruct"/>
  </xs:sequence>
</xs:complexType>

```

DataClassStruct: A **DataClass**.

3.1.4.43.4 Simple Types

None.

3.1.4.43.5 Attributes

None.

3.1.4.43.6 Groups

None.

3.1.4.43.7 Attribute Groups

None.

3.1.4.44 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** operation retrieves the **DefaultValues** of the specified **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetDefaultValuesForTypeDescriptor** **WSDL operation**.

```
<wsdl:operation name="GetDefaultValuesForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor OutputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentOutOf
RangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The TypeDescriptor with the specified MetadataObjectId does not exist.

3.1.4.44.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage	The request WSDL message for the GetDefaultValuesForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage	The response WSDL message for the GetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.44.1.1 BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor
```

The **SOAP body** contains the **GetDefaultValuesForTypeDescriptor** element.

3.1.4.44.1.2 BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **GetDefaultValuesForTypeDescriptorResponse** element.

3.1.4.44.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetDefaultValuesForTypeDescriptor	The input data for the GetDefaultValuesForTypeDescriptor WSDL operation .
GetDefaultValuesForTypeDescriptorResponse	The result data for the GetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.44.2.1 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** element specifies the input data for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="GetDefaultValuesForTypeDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The **MetadataObjectID** of the **TypeDescriptor**.

partitionId: The **partition** of the protocol client.

3.1.4.44.2.2 GetDefaultValuesForTypeDescriptorResponse

The **GetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **GetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="GetDefaultValuesForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfDefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetDefaultValuesForTypeDescriptorResult: The **DefaultValues** of the specified **TypeDescriptor**.

3.1.4.44.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfDefaultValueStruct	Contains a list of DefaultValues .

3.1.4.44.3.1 ArrayOfDefaultValueStruct

Namespace: Microsoft.SharePoint.BusinessData

A complex type that specifies a list of **DefaultValues**, as follows.

```
<xs:complexType name="ArrayOfDefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true"
type="q5:DefaultValueStruct"/>
  </xs:sequence>
</xs:complexType>
```

DefaultValueStruct: A **DefaultValue**.

3.1.4.44.4 Simple Types

None.

3.1.4.44.5 Attributes

None.

3.1.4.44.6 Groups

None.

3.1.4.44.7 Attribute Groups

None.

3.1.4.45 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** operation retrieves the **Entities** that perform the role of source or destination for the specified **Association**.

The following is the **WSDL** port type specification of the **GetEntitiesForAssociationAndRole WSDL operation**.

```
<wsdl:operation name="GetEntitiesForAssociationAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullEx
ceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfR
angeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionSt
ateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperati
onExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcept
ionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The value of the role parameter is not zero ("0") or "1". <65>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Association does not exist. <66>

3.1.4.45.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage	The request WSDL message for the GetEntitiesForAssociationA

Message	Description
	ndRole WSDL operation.
BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage	The response WSDL message for the GetEntitiesForAssociationAndRole WSDL operation.

3.1.4.45.1.1 BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage

The request **WSDL message** for the **GetEntitiesForAssociationAndRole WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole
```

The **SOAP body** contains the **GetEntitiesForAssociationAndRole** element.

3.1.4.45.1.2 BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage

The response **WSDL message** for the **GetEntitiesForAssociationAndRole WSDL operation.**

The **SOAP body** contains the **GetEntitiesForAssociationAndRoleResponse** element.

3.1.4.45.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesForAssociationAndRole	The input data for the GetEntitiesForAssociationAndRole WSDL operation.
GetEntitiesForAssociationAndRoleResponse	The result data for the GetEntitiesForAssociationAndRole WSDL operation.

3.1.4.45.2.1 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** element specifies the input data for the **GetEntitiesForAssociationAndRole WSDL operation.**

```
<xs:element name="GetEntitiesForAssociationAndRole"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

associationId: The **MetadataObjectId** of the **Association**.

role: Specifies the **Entities** to be returned. The following table describes possible values.

Value	Description
0	The Entities are sources of the Association .
1	The Entity is the destinations of the Association .

activeOnly: This element MUST contain information about the **Entities** to be returned. If set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities**, regardless of the active status.

partitionId: The **partition** of the protocol client.

3.1.4.45.2.2 GetEntitiesForAssociationAndRoleResponse

The **GetEntitiesForAssociationAndRoleResponse** element specifies the result data for the **GetEntitiesForAssociationAndRole WSDL operation**.

```

<xs:element name="GetEntitiesForAssociationAndRoleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForAssociationAndRoleResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetEntitiesForAssociationAndRoleResult: The list of **Entities**. The **partition** of these **Entities** MUST be the partition of the protocol client.

3.1.4.45.3 Complex Types

None.

3.1.4.45.4 Simple Types

None.

3.1.4.45.5 Attributes

None.

3.1.4.45.6 Groups

None.

3.1.4.45.7 Attribute Groups

None.

3.1.4.46 GetEntitiesForSystem

The **GetEntitiesForSystem** operation retrieves **Entities** of the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetEntitiesForSystem WSDL operation**.

```
<wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section

2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist. <67>

3.1.4.46.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage	The request WSDL message for the GetEntitiesForSystem WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage	The response WSDL message for the GetEntitiesForSystem WSDL operation .

3.1.4.46.1.1 BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage

The request **WSDL message** for the **GetEntitiesForSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem
```

The **SOAP body** contains the **GetEntitiesForSystem** element.

3.1.4.46.1.2 BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage

The response **WSDL message** for the **GetEntitiesForSystem WSDL operation**.

The **SOAP body** contains the **GetEntitiesForSystemResponse** element.

3.1.4.46.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesForSystem	The input data for the GetEntitiesForSystem WSDL operation .
GetEntitiesForSystemResponse	The result data for the GetEntitiesForSystem WSDL operation .

3.1.4.46.2.1 GetEntitiesForSystem

The **GetEntitiesForSystem** element specifies the input data for the **GetEntitiesForSystem WSDL operation**.

```
<xs:element name="GetEntitiesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

activeOnly: This element MUST contain information about the **Entities** to be returned. If set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities**, regardless of the active status.

partitionId: The **partition** of the protocol client.

3.1.4.46.2.2 GetEntitiesForSystemResponse

The **GetEntitiesForSystemResponse** element specifies the result data for the **GetEntitiesForSystem WSDL operation**.

```
<xs:element name="GetEntitiesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesForSystemResult: The list of **Entities**. The **partition** of these **Entities** MUST be the partition of the protocol client.

3.1.4.46.3 Complex Types

None.

3.1.4.46.4 Simple Types

None.

3.1.4.46.5 Attributes

None.

3.1.4.46.6 Groups

None.

3.1.4.46.7 Attribute Groups

None.

3.1.4.47 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** operation retrieves the **Entities** that match the specified wildcard patterns for name and namespace.

An **Entity** matches the pattern specified by **wildcardedName** if, and only if, **wildcardedName** matches the name of the **Entity**, the **localized name** of the **Entity** with **language code identifier (LCID)** set to zero, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.

An **Entity** matches the pattern specified by **wildcardedNamespace** if, and only if, **wildcardedNamespace** matches the namespace of the **Entity**.

The following is the **WSDL** port type specification of the **GetEntitiesLikeNameAndNamespace WSDL operation**.

```
<wsdl:operation name="GetEntitiesLikeNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace InvalidOperatio
nExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace MetadataExcepti
onStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the wildcardedName element exceeds 255 characters, or the length of the name of the wildcardedNamespace exceeds 255 characters, or the specified wildcardedName is invalid, or the specified wildcardedNamespace is invalid.

3.1.4.47.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage	The request WSDL message for the GetEntitiesLikeNameAndNamespace WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage	The response WSDL message for the GetEntitiesLikeNameAndNamespace WSDL operation .

3.1.4.47.1.1 BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage

The request **WSDL message** for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
EntitiesLikeNameAndNamespace

```

The **SOAP body** contains the **GetEntitiesLikeNameAndNamespace** element.

3.1.4.47.1.2 BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage

The response **WSDL message** for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

The **SOAP body** contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

3.1.4.47.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesLikeNameAndNamespace	The input data for the GetEntitiesLikeNameAndNamespace WSDL operation .
GetEntitiesLikeNameAndNamespaceResponse	The result data for the GetEntitiesLikeNameAndNamespace WSDL operation .

3.1.4.47.2.1 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** element specifies the input data for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

```
<xs:element name="GetEntitiesLikeNameAndNamespace"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

wildcardedNamespace: The wildcard pattern to be used to retrieve the **Entities** whose namespace matches the wildcard pattern.

The following is the **ABNF** for the **wildcardedNamespace**.

```
wildcardedNamespace = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the namespace of the **Entities** with the value of **wildcardedNamespace** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:


```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

wildcardedName: The wildcard pattern to be used to retrieve the **Entities** whose name or **localized name** matches the wildcard pattern.

The following is the ABNF for the **wildcardedName**.

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the name or localized name of the **Entities** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

callerCultureLcid: The **language code identifier (LCID)** representing the locale to be used when retrieving the **Entities**.

activeOnly: This element MUST contain the information about the **Entities** to be returned. If set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities** regardless of the active status.

partitionId: The **partition** of the protocol client.

3.1.4.47.2.2 GetEntitiesLikeNameAndNamespaceResponse

The **GetEntitiesLikeNameAndNamespaceResponse** element specifies the result data for the **GetEntitiesLikeNameAndNamespace WSDL operation**.

```
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesLikeNameAndNamespaceResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesLikeNameAndNamespaceResult: The list of **Entities**. The **partition** of these **Entities** MUST be the partition of the protocol client.

3.1.4.47.3 Complex Types

None.

3.1.4.47.4 Simple Types

None.

3.1.4.47.5 Attributes

None.

3.1.4.47.6 Groups

None.

3.1.4.47.7 Attribute Groups

None.

3.1.4.48 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** operation retrieves **Entities** that are referenced by the specified **Model**.

The following is the **WSDL** port type specification of the **GetEntitiesReferencedByModelId WSDL operation**.

```
<wsdl:operation name="GetEntitiesReferencedByModelId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperation
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesReferencedByModelId MetadataExceptio
nStateFault FaultMessage" xmlns:w3a="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist. <68>

3.1.4.48.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage	The request WSDL message for the GetEntitiesReferencedByModelId WSDL operation .
BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage	The response WSDL message for the GetEntitiesReferencedByModelId WSDL operation .

3.1.4.48.1.1 BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage

The request **WSDL message** for the **GetEntitiesReferencedByModelId WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
EntitiesReferencedByModelId

```

The **SOAP body** contains the **GetEntitiesReferencedByModelId** element.

3.1.4.48.1.2 BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_outputMessage

The response **WSDL message** for the **GetEntitiesReferencedByModelId WSDL operation**.

The **SOAP body** contains the **GetEntitiesReferencedByModelIdResponse** element.

3.1.4.48.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntitiesReferencedByModelId	The input data for the GetEntitiesReferencedByModelId WSDL operation .
GetEntitiesReferencedByModelIdResponse	The result data for the GetEntitiesReferencedByModelId WSDL operation .

3.1.4.48.2.1 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** element specifies the input data for the **GetEntitiesReferencedByModelId WSDL operation**.

```
<xs:element name="GetEntitiesReferencedByModelId"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="0" name="mode"
type="tns4:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The **MetadataObjectId** of the **Model**.

mode: Specifies the **Entities** to be returned. The value of this element is specified in **EntityConstants.EntitiesInModelQuery** (section [3.1.4.48.4.1](#)).

activeOnly: This element MUST contain information about the **Entities** to be returned. If it is set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities** regardless of the active status.

partitionId: The **partition** of the protocol client.

3.1.4.48.2.2 GetEntitiesReferencedByModelIdResponse

The **GetEntitiesReferencedByModelIdResponse** element specifies the result data for the **GetEntitiesReferencedByModelId WSDL operation**.

```

<xs:element name="GetEntitiesReferencedByModelIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesReferencedByModelIdResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetEntitiesReferencedByModelIdResult: The list of **Entities**. The **partition** of these **Entities** MUST be the partition of the protocol client.

3.1.4.48.3 Complex Types

None.

3.1.4.48.4 Simple Types

The following table summarizes the **XML schema** simple type definitions that are specific to this operation.

Simple type	Description
EntityConstants.EntitiesInModelQuery	Contains a list of Entities to be returned.

3.1.4.48.4.1 EntityConstants.EntitiesInModelQuery

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants>

Specifies the **Entities** to be returned.

```

<xs:simpleType name="EntityConstants.EntitiesInModelQuery"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllEntitiesInModel"/>
    <xs:enumeration value="OwnedEntitiesInModel"/>
    <xs:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **EntityConstants.EntitiesInModelQuery** simple type.

Value	Meaning
AllEntitiesInModel	Return all Entities referenced by the specified Model .
OwnedEntitiesInModel	Returned Entities MUST be referenced only in the specified Model .
SharedEntitiesInModel	Returned Entities MUST be referenced in the specified Model and in other Models .

3.1.4.48.5 Attributes

None.

3.1.4.48.6 Groups

None.

3.1.4.48.7 Attribute Groups

None.

3.1.4.49 GetEntityById

The **GetEntityById** operation retrieves the **Entity** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetEntityById WSDL operation**.

```
<wsdl:operation name="GetEntityById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityById_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetEntityById_OutputMessage response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.49.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityById_InputMessage	The request WSDL message for the GetEntityById WSDL operation .
BusinessDataCatalogSharedService_GetEntityById_OutputMessage	The response WSDL message for the GetEntityById WSDL operation .

3.1.4.49.1.1 BusinessDataCatalogSharedService_GetEntityById_InputMessage

The request **WSDL message** for the **GetEntityById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById
```

The **SOAP body** contains the **GetEntityById** element.

3.1.4.49.1.2 BusinessDataCatalogSharedService_GetEntityById_OutputMessage

The response **WSDL message** for the **GetEntityById WSDL operation**.

The **SOAP body** contains the **GetEntityByIdResponse** element.

3.1.4.49.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityById	The input data for the GetEntityById WSDL operation .
GetEntityByIdResponse	The result data for the GetEntityById WSDL operation .

3.1.4.49.2.1 GetEntityById

The **GetEntityById** element specifies the input data for the **GetEntityById WSDL operation**.

```
<xs:element name="GetEntityById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if an **Entity** with the specified **MetadataObjectId** exists. If an **Entity** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetEntityByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.49.2.2 GetEntityByIdResponse

The **GetEntityByIdResponse** element specifies the result data for the **GetEntityById WSDL operation**.

```
<xs:element name="GetEntityByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityByIdResult: The **Entity**. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.49.3 Complex Types

None.

3.1.4.49.4 Simple Types

None.

3.1.4.49.5 Attributes

None.

3.1.4.49.6 Groups

None.

3.1.4.49.7 Attribute Groups

None.

3.1.4.50 GetEntityCount

The **GetEntityCount** operation retrieves the number of **Entities** that are contained by the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetEntityCount WSDL operation**.

```
<wsdl:operation name="GetEntityCount" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityCount_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetEntityCount_OutputMessage response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<69>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.<70>

3.1.4.50.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityCount_InputMessage	The request WSDL message for the GetEntityCount WSDL operation .
BusinessDataCatalogSharedService_GetEntityCount_OutputMessage	The response WSDL message for the GetEntityCount WSDL operation .

3.1.4.50.1.1 BusinessDataCatalogSharedService_GetEntityCount_InputMessage

The request **WSDL message** for the **GetEntityCount WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount
```

The **SOAP body** contains the **GetEntityCount** element.

3.1.4.50.1.2 BusinessDataCatalogSharedService_GetEntityCount_OutputMessage

The response **WSDL message** for the **GetEntityCount WSDL operation**.

The **SOAP body** contains the **GetEntityCountResponse** element.

3.1.4.50.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityCount	The input data for the GetEntityCount WSDL operation .
GetEntityCountResponse	The result data for the GetEntityCount WSDL operation .

3.1.4.50.2.1 GetEntityCount

The **GetEntityCount** element specifies the input data for the **GetEntityCount WSDL operation**.

```
<xs:element name="GetEntityCount" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

partitionId: The **partition** of the protocol client.

3.1.4.50.2.2 GetEntityCountResponse

The **GetEntityCountResponse** element specifies the result data for the **GetEntityCount WSDL operation**.

```
<xs:element name="GetEntityCountResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityCountResult: The number of **Entities** contained by the specified **LobSystem**.

3.1.4.50.3 Complex Types

None.

3.1.4.50.4 Simple Types

None.

3.1.4.50.5 Attributes

None.

3.1.4.50.6 Groups

None.

3.1.4.50.7 Attribute Groups

None.

3.1.4.51 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** operation retrieves the names and namespaces of **Entities** that are referenced by the specified **Association**. Only **Entities** in the specified association role of source or destination are returned.

The following is the **WSDL** port type specification of the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

```
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero, or the value of the role parameter is not zero ("0") or "1" <71>.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Association does not exist <72>.

3.1.4.51.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage	The request WSDL message for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .
BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage	The response WSDL message for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .

3.1.4.51.1.1 BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage

The request **WSDL message** for the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole
```

The **SOAP body** contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

3.1.4.51.1.2 BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage

The response **WSDL message** for the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

The **SOAP body** contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

3.1.4.51.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityNameAndNamespacesForAssociationAndRole	The input data for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .
GetEntityNameAndNamespacesForAssociationAndRoleResponse	The result data for the GetEntityNameAndNamespacesForAssociationAndRole WSDL operation .

3.1.4.51.2.1 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** element specifies the input data for the **GetEntityNameAndNamespacesForAssociationAndRole WSDL operation**.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The **MetadataObjectId** of the **Association** for which the **Entity** information is to be returned.

role: A byte that specifies whether to return information for the **Entities** that are referenced as **Association** source or **Association** destination by the specified **Association**. The following table describes possible values.

Value	Description
0	Returns a value for Entities that are referenced as Association sources by the specified Association .
1	Returns a value for Entities that are referenced as Association destination by the specified Association .

partitionId: The **partition** of the protocol client.

3.1.4.51.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse

The **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element specifies the result data for the **GetEntityNameAndNamespacesForAssociationAndRole** **WSDL operation**.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="namespaces" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="names" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespaces: The namespaces of the **Entities** that are referenced by the specified **Association** in the specified role of source or **Association** destination.

names: The names of the **Entities** that are referenced by the specified **Association** in the specified role of source or destination. The order of these names **MUST** correspond to the order of namespaces, so that the *n*th name and the *n*th namespace together describe the name and namespace of a single **Entity**.

3.1.4.51.3 Complex Types

None.

3.1.4.51.4 Simple Types

None.

3.1.4.51.5 Attributes

None.

3.1.4.51.6 Groups

None.

3.1.4.51.7 Attribute Groups

None.

3.1.4.52 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** operation retrieves the active **Entity** with the specified name and namespace in the specified **partition**.

The following is the **WSDL** port type specification of the **GetEntityWithNameAndNamespace** **WSDL operation**.

```
<wsdl:operation name="GetEntityWithNameAndNamespace"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified name or the specified namespace exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An active Entity with the specified namespace and name does not exist in the specified partition.

3.1.4.52.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage	The request WSDL message for the GetEntityWithNameAndNamespace WSDL operation .
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage	The response WSDL message for the GetEntityWithNameAndNamespace WSDL operation .

3.1.4.52.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage

The request **WSDL message** for the **GetEntityWithNameAndNamespace WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace
```

The **SOAP body** contains the **GetEntityWithNameAndNamespace** element.

3.1.4.52.1.2 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage

The response **WSDL message** for the **GetEntityWithNameAndNamespace WSDL operation**.

The **SOAP body** contains the **GetEntityWithNameAndNamespaceResponse** element.

3.1.4.52.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityWithNameAndNamespace	The input data for the GetEntityWithNameAndNamespace WSDL operation .
GetEntityWithNameAndNamespaceResponse	The result data for the GetEntityWithNameAndNamespace WSDL operation .

3.1.4.52.2.1 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** element specifies the input data for the **GetEntityWithNameAndNamespace WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

namespace: The namespace of the **Entity** to be returned.

name: The name of the **Entity** to be returned.

partitionId: The **partition** of the protocol client.

3.1.4.52.2 GetEntityWithNameAndNamespaceResponse

The **GetEntityWithNameAndNamespaceResponse** element specifies the result data for the **GetEntityWithNameAndNamespace WSDL operation**.

```

<xs:element name="GetEntityWithNameAndNamespaceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetEntityWithNameAndNamespaceResult: The **Entity**. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.52.3 Complex Types

None.

3.1.4.52.4 Simple Types

None.

3.1.4.52.5 Attributes

None.

3.1.4.52.6 Groups

None.

3.1.4.52.7 Attribute Groups

None.

3.1.4.53 GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** operation retrieves the **Entity** with the specified name, namespace, and version.

The following is the **WSDL** port type specification of the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

```
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersion"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invalid
OperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the specified name or the length of the specified namespace exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified namespace and name and version does not exist in the specified partition .

3.1.4.53.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage	The request WSDL message for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage	The response WSDL message for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .

3.1.4.53.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage

The request **WSDL message** for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion
```

The **SOAP body** contains the **GetEntityWithNameAndNamespaceAndVersion** element.

3.1.4.53.1.2 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage

The response **WSDL message** for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

The **SOAP body** contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

3.1.4.53.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetEntityWithNameAndNamespaceAndVersion	The input data for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .
GetEntityWithNameAndNamespaceAndVersionResponse	The result data for the GetEntityWithNameAndNamespaceAndVersion WSDL operation .

3.1.4.53.2.1 GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** element specifies the input data for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersion"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q4:Version"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespace: The namespace of the **Entity** to be returned.

name: The name of the **Entity** to be returned.

version: The version of the **Entity** to be returned.

partitionId: The **partition** of the protocol client.

3.1.4.53.2.2 GetEntityWithNameAndNamespaceAndVersionResponse

The **GetEntityWithNameAndNamespaceAndVersionResponse** element specifies the result data for the **GetEntityWithNameAndNamespaceAndVersion WSDL operation**.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityWithNameAndNamespaceAndVersionResult: The **Entity**. The **partition** of this **Entity** MUST be the partition of the protocol client.

3.1.4.53.3 Complex Types

None.

3.1.4.53.4 Simple Types

None.

3.1.4.53.5 Attributes

None.

3.1.4.53.6 Groups

None.

3.1.4.53.7 Attribute Groups

None.

3.1.4.54 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** operation retrieves **TypeDescriptors** that correspond to **fields** of the **MethodInstance** with the specified name in the specified **Entity**.

The following is the **WSDL** port type specification of the **GetFieldTypeDescriptorsByMethodInstance WSDL operation**.

```
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance"
    message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse"
    message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invalid
OperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metadat
aExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	<p>The MethodInstanceType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) of the MethodInstance with the specified name in the specified Entity is not equal to any one of the following:</p> <ul style="list-style-type: none"> ▪ Finder ▪ SpecificFinder ▪ IdEnumerator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ BulkSpecificFinder ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ Creator ▪ Updater
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A MethodInstance with the specified name does not exist in the specified Entity .

3.1.4.54.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage	The request WSDL message for the GetFieldTypeDescriptorsByMethodInstance WSDL operation.
BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage	The response WSDL message for the GetFieldTypeDescriptorsByMethodInstance WSDL operation.

3.1.4.54.1.1 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage

The request **WSDL message** for the **GetFieldTypeDescriptorsByMethodInstance WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance
```

The **SOAP body** contains the **GetFieldTypeDescriptorsByMethodInstance** element.

3.1.4.54.1.2 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage

The response **WSDL message** for the **GetFieldTypeDescriptorsByMethodInstance WSDL operation.**

The **SOAP body** contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

3.1.4.54.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetFieldTypeDescriptorsByMethodInstance	The input data for the GetFieldTypeDescriptorsByMethodInstance WSDL operation.
GetFieldTypeDescriptorsByMethodInstanceResponse	The result data for the GetFieldTypeDescriptorsByMethodInstance WSDL operation.

3.1.4.54.2.1 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** element specifies the input data for the **GetFieldTypeDescriptorsByMethodInstance WSDL operation.**


```

<xs:element name="GetFieldTypeDescriptorsByMethodInstance"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodName" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

methodName: The name of the **MethodInstance**.

entityStruct: The **Entity**. The **partition** of the **Entity** MUST be the partition of the protocol client.

3.1.4.54.2 GetFieldTypeDescriptorsByMethodInstanceResponse

The **GetFieldTypeDescriptorsByMethodInstanceResponse** element specifies the result data for the **GetFieldTypeDescriptorsByMethodInstance** **WSDL operation**.

```

<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetFieldTypeDescriptorsByMethodInstanceResult: The list of **TypeDescriptors**. The **partition** of these **TypeDescriptors** MUST be the partition of the protocol client.

3.1.4.54.3 Complex Types

None.

3.1.4.54.4 Simple Types

None.

3.1.4.54.5 Attributes

None.

3.1.4.54.6 Groups

None.

3.1.4.54.7 Attribute Groups

None.

3.1.4.55 GetFilterDescriptorById

The **GetFilterDescriptorById** operation retrieves the **FilterDescriptor** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetFilterDescriptorById WSDL operation**.

```
<wsdl:operation name="GetFilterDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").

Error complex type	Condition
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A FilterDescriptor with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.55.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage	The request WSDL message for the GetFilterDescriptorById WSDL operation .
BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage	The response WSDL message for the GetFilterDescriptorById WSDL operation .

3.1.4.55.1.1 BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage

The request **WSDL message** for the **GetFilterDescriptorById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById
```

The **SOAP body** contains the **GetFilterDescriptorById** element.

3.1.4.55.1.2 BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage

The response **WSDL message** for the **GetFilterDescriptorById WSDL operation**.

The **SOAP body** contains the **GetFilterDescriptorByIdResponse** element.

3.1.4.55.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetFilterDescriptorById	The input data for the GetFilterDescriptorById WSDL operation .
GetFilterDescriptorByIdResponse	The result data for the GetFilterDescriptorById WSDL operation .

3.1.4.55.2.1 GetFilterDescriptorById

The **GetFilterDescriptorById** element specifies the input data for the **GetFilterDescriptorById** **WSDL operation**.

```
<xs:element name="GetFilterDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

filterDescriptorId: The **MetadataObjectId** of the **FilterDescriptor**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **FilterDescriptor** exists. If a **FilterDescriptor** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetFilterDescriptorByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.55.2.2 GetFilterDescriptorByIdResponse

The **GetFilterDescriptorByIdResponse** element specifies the result data for the **GetFilterDescriptorById** **WSDL operation**.

```
<xs:element name="GetFilterDescriptorByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="q5:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFilterDescriptorByIdResult: The **FilterDescriptor** that was returned. The **partition** of this **FilterDescriptor** MUST be the partition of the protocol client.

3.1.4.55.3 Complex Types

None.

3.1.4.55.4 Simple Types

None.

3.1.4.55.5 Attributes

None.

3.1.4.55.6 Groups

None.

3.1.4.55.7 Attribute Groups

None.

3.1.4.56 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** operation retrieves the **FilterDescriptors** contained by the specified **Method**.

The following is the **WSDL** port type specification of the **GetFilterDescriptorsForMethod WSDL operation**.

```
<wsdl:operation name="GetFilterDescriptorsForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage** request

message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the Method is set to zero ("0").<73>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Method with the specified MetadataObjectId does not exist.<74>

3.1.4.56.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage	The request WSDL message for the GetFilterDescriptorsForMethod WSDL operation .
BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage	The response WSDL message for the GetFilterDescriptorsForMethod WSDL operation .

3.1.4.56.1.1 BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage

The request **WSDL message** for the **GetFilterDescriptorsForMethod WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod
```

The **SOAP body** contains the **GetFilterDescriptorsForMethod** element.

3.1.4.56.1.2 BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage

The response **WSDL message** for the **GetFilterDescriptorsForMethod WSDL operation**.

The **SOAP body** contains the **GetFilterDescriptorsForMethodResponse** element.

3.1.4.56.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetFilterDescriptorsForMethod	The input data for the GetFilterDescriptorsForMethod WSDL operation .
GetFilterDescriptorsForMethodResponse	The result data for the GetFilterDescriptorsForMethod WSDL operation .

3.1.4.56.2.1 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** element specifies the input data for the **GetFilterDescriptorsForMethod WSDL operation**.

```
<xs:element name="GetFilterDescriptorsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method** for which the **FilterDescriptors** are obtained.

partitionId: The **partition** of the protocol client.

3.1.4.56.2.2 GetFilterDescriptorsForMethodResponse

The **GetFilterDescriptorsForMethodResponse** element specifies the result data for the **GetFilterDescriptorsForMethod WSDL operation**.

```
<xs:element name="GetFilterDescriptorsForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="q5:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFilterDescriptorsForMethodResult: The list of **FilterDescriptors**. The **partition** of these **FilterDescriptors** MUST be the partition of the protocol client.

3.1.4.56.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfFilterDescriptorStruct	Contains a list of FilterDescriptors .

3.1.4.56.3.1 ArrayOfFilterDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of **FilterDescriptors**.

```
<xs:complexType name="ArrayOfFilterDescriptorStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="q5:FilterDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>
```

FilterDescriptorStruct: A **FilterDescriptor** of a **Method**.

3.1.4.56.4 Simple Types

None.

3.1.4.56.5 Attributes

None.

3.1.4.56.6 Groups

None.

3.1.4.56.7 Attribute Groups

None.

3.1.4.57 GetIdentifierById

The **GetIdentifierById** operation retrieves the **Identifier** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetIdentifierById WSDL operation**.

```
<wsdl:operation name="GetIdentifierById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"/>
```



```

message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetIdentifierById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Identifier with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.57.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetIdentifierById_InputMessage	The request WSDL message for the GetIdentifierById WSDL

Message	Description
	operation.
BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage	The response WSDL message for the GetIdentifierById WSDL operation.

3.1.4.57.1.1 BusinessDataCatalogSharedService_GetIdentifierById_InputMessage

The request **WSDL message** for the **GetIdentifierById WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById
```

The **SOAP body** contains the **GetIdentifierById** element.

3.1.4.57.1.2 BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage

The response **WSDL message** for the **GetIdentifierById WSDL operation.**

The **SOAP body** contains the **GetIdentifierByIdResponse** element.

3.1.4.57.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetIdentifierById	The input data for the GetIdentifierById WSDL operation.
GetIdentifierByIdResponse	The result data for the GetIdentifierById WSDL operation.

3.1.4.57.2.1 GetIdentifierById

The **GetIdentifierById** element specifies the input data for the **GetIdentifierById WSDL operation.**

```
<xs:element name="GetIdentifierById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

identifierId: The **MetadataObjectId** of the **Identifier.**

performErrorCheck: The value of this element MUST be ignored by the protocol server if an **Identifier** with the specified **MetadataObjectId** exists. If an **Identifier** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetIdentifierByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.57.2 GetIdentifierByIdResponse

The **GetIdentifierByIdResponse** element specifies the result data for the **GetIdentifierById WSDL operation**.

```
<xs:element name="GetIdentifierByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="q5:IdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetIdentifierByIdResult: The **Identifier** that was returned. The **partition** of this **Identifier** MUST be the partition of the protocol client.

3.1.4.57.3 Complex Types

None.

3.1.4.57.4 Simple Types

None.

3.1.4.57.5 Attributes

None.

3.1.4.57.6 Groups

None.

3.1.4.57.7 Attribute Groups

None.

3.1.4.58 GetIdentifiersForEntity

The **GetIdentifiersForEntity** operation retrieves the **Identifiers** contained by the specified **Entity**.

The following is the **WSDL** port type specification of the **GetIdentifiersForEntity WSDL operation**.

```
<wsdl:operation name="GetIdentifiersForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService GetIdentifiersForEntity OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the Entity is set to zero ("0").<75>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified MetadataObjectId does not exist.<76>

3.1.4.58.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage	The request WSDL message for the GetIdentifiersForEntity WSDL operation .
BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage	The response WSDL message for the GetIdentifiersForEntity WSDL operation .

3.1.4.58.1.1 BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage

The request **WSDL message** for the **GetIdentifiersForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity
```

The **SOAP body** contains the **GetIdentifiersForEntity** element.

3.1.4.58.1.2 BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage

The response **WSDL message** for the **GetIdentifiersForEntity WSDL operation**.

The **SOAP body** contains the **GetIdentifiersForEntityResponse** element.

3.1.4.58.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetIdentifiersForEntity	The input data for the GetIdentifiersForEntity WSDL operation .
GetIdentifiersForEntityResponse	The result data for the GetIdentifiersForEntity WSDL operation .

3.1.4.58.2.1 GetIdentifiersForEntity

The **GetIdentifiersForEntity** element specifies the input data for the **GetIdentifiersForEntity WSDL operation**.

```
<xs:element name="GetIdentifiersForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity** for which the **Identifiers** are to be obtained.

partitionId: The **partition** of the protocol client.

3.1.4.58.2.2 GetIdentifiersForEntityResponse

The **GetIdentifiersForEntityResponse** element specifies the result data for the **GetIdentifiersForEntity WSDL operation**.

```
<xs:element name="GetIdentifiersForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="q5:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetIdentifiersForEntityResult: The list of **Identifiers**. The **partition** of these **Identifiers** MUST be the partition of the protocol client.

3.1.4.58.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfIdentifierStruct	Contains a list of Identifiers .

3.1.4.58.3.1 ArrayOfIdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of **Identifiers**.

```
<xs:complexType name="ArrayOfIdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="q5:IdentifierStruct"/>
  </xs:sequence>
</xs:complexType>
```

IdentifierStruct: An **Identifier** of an **Entity**.

3.1.4.58.4 Simple Types

None.

3.1.4.58.5 Attributes

None.

3.1.4.58.6 Groups

None.

3.1.4.58.7 Attribute Groups

None.

3.1.4.59 GetImportProgress

The **GetImportProgress** operation retrieves the progress of an **ImportPackageWithProgress** operation, using the unique identifier provided by the client at the creation of the import operation.

The following is the **WSDL** port type specification of the **GetImportProgress WSDL operation**.

```
<wsdl:operation name="GetImportProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress"
    message="tns:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse"
    message="tns:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetImportProgress_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetImportProgress_OutputMessage** response message, unless any faults occur.

3.1.4.59.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetImportProgress_InputMessage	The request WSDL message for the GetImportProgress WSDL operation .
BusinessDataCatalogSharedService_GetImportProgress_OutputMessage	The response WSDL message for the GetImportProgress WSDL operation .

3.1.4.59.1.1 BusinessDataCatalogSharedService_GetImportProgress_InputMessage

The request **WSDL message** for the **GetImportProgress WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress

The **SOAP body** contains the **GetImportProgress** element.

3.1.4.59.1.2 BusinessDataCatalogSharedService_GetImportProgress_OutputMessage

The response **WSDL message** for the **GetImportProgress WSDL operation**.

The **SOAP body** contains the **GetImportProgressResponse** element.

3.1.4.59.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetImportProgress	The input data for the GetImportProgress WSDL operation .
GetImportProgressResponse	The result data for the GetImportProgress WSDL operation .

3.1.4.59.2.1 GetImportProgress

The **GetImportProgress** element specifies the input data for the **GetImportProgress WSDL operation**.

```
<xs:element name="GetImportProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="jobId" type="ser:guid"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

jobId: The identifier of the import operation for which the progress is to be retrieved.

partitionId: The **partition** of the protocol client.

3.1.4.59.2.2 GetImportProgressResponse

The **GetImportProgressResponse** element specifies the result data for the **GetImportProgress WSDL operation**.

```
<xs:element name="GetImportProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```


GetImportProgressResult: The fraction of the operation that is finished. The value MUST be in the range 0-1. The value MUST be zero if **jobId** is not recognized as a current import job.

3.1.4.59.3 Complex Types

None.

3.1.4.59.4 Simple Types

None.

3.1.4.59.5 Attributes

None.

3.1.4.59.6 Groups

None.

3.1.4.59.7 Attribute Groups

None.

3.1.4.60 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** operation retrieves the depth of the specified **TypeDescriptor** in the **TypeDescriptor** tree. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth zero. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1, plus the depth of the containing **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetLevelForTypeDescriptor WSDL operation**.

```
<wsdl:operation name="GetLevelForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
    message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified TypeDescriptor is set to zero ("0"). <77>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	At least one of the following is true: <ul style="list-style-type: none"> The specified TypeDescriptor does not exist. <78> The specified TypeDescriptor is not the root of the TypeDescriptor tree, and the parent of the specified TypeDescriptor does not exist. An ancestor of the specified TypeDescriptor is not the root of the TypeDescriptor tree that contains the specified TypeDescriptor, and the parent of the ancestor does not exist.

3.1.4.60.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage	The request WSDL message for the GetLevelForTypeDescriptor or WSDL operation .
BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage	The response WSDL message for the GetLevelForTypeDescriptor or WSDL operation.

3.1.4.60.1.1 BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage

The request **WSDL message** for the **GetLevelForTypeDescriptor** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor
```

The **SOAP body** contains the **GetLevelForTypeDescriptor** element.

3.1.4.60.1.2 BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage

The response **WSDL message** for the **GetLevelForTypeDescriptor** **WSDL operation**.

The **SOAP body** contains the **GetLevelForTypeDescriptorResponse** element.

3.1.4.60.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLevelForTypeDescriptor	The input data for the GetLevelForTypeDescriptor WSDL operation .
GetLevelForTypeDescriptorResponse	The result data for the GetLevelForTypeDescriptor WSDL operation.

3.1.4.60.2.1 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** element specifies the input data for the **GetLevelForTypeDescriptor** **WSDL operation**.

```
<xs:element name="GetLevelForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

typeDescriptorStruct: The **TypeDescriptor**. The **partition** of the **TypeDescriptor** MUST be the partition of the protocol client.

3.1.4.60.2.2 GetLevelForTypeDescriptorResponse

The **GetLevelForTypeDescriptorResponse** element specifies the result data for the **GetLevelForTypeDescriptor WSDL operation**.

```

<xs:element name="GetLevelForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
        type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetLevelForTypeDescriptorResult: The depth of the specified **TypeDescriptor** in the **TypeDescriptor** tree that contains the **TypeDescriptor**.

3.1.4.60.3 Complex Types

None.

3.1.4.60.4 Simple Types

None.

3.1.4.60.5 Attributes

None.

3.1.4.60.6 Groups

None.

3.1.4.60.7 Attribute Groups

None.

3.1.4.61 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** operation retrieves the Business Logic Modules associated with the specified **LobSystem** if the **systemType** element of the specified **LobSystem** is not set to "Custom". If the **systemType** element of the specified **LobSystem** is set to "Custom", the behavior of this operation is implementation-specific [<79>](#).

The following is the **WSDL** port type specification of the **GetLobSystemAllAssembliesBytes WSDL operation**.

```

<wsdl:operation name="GetLobSystemAllAssembliesBytes"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">

```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytes"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperation
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infr structure)	The security principal in whose context the protocol client is operating is not authorized to read<80> the specified LobSystem , and the

Error complex type	Condition
	CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero ("0").

3.1.4.61.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage	The request WSDL message for the GetLobSystemAllAssembliesBytes WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage	The response WSDL message for the GetLobSystemAllAssembliesBytes WSDL operation .

3.1.4.61.1.1 BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage

The request **WSDL message** for the **GetLobSystemAllAssembliesBytes WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes
```

The **SOAP body** contains the **GetLobSystemAllAssembliesBytes** element.

3.1.4.61.1.2 BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage

The response **WSDL message** for the **GetLobSystemAllAssembliesBytes WSDL operation**.

The **SOAP body** contains the **GetLobSystemAllAssembliesBytesResponse** element.

3.1.4.61.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemAllAssembliesBytes	The input data for the GetLobSystemAllAssembliesBytes WSDL operation .
GetLobSystemAllAssembliesBytesResponse	The result data for the GetLobSystemAllAssembliesBytes WSDL operation .

3.1.4.61.2.1 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** element specifies the input data for the **GetLobSystemAllAssembliesBytes WSDL operation**.

```
<xs:element name="GetLobSystemAllAssembliesBytes"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem**. The **partition** of the **LobSystem** MUST be the partition of the protocol client.

3.1.4.61.2.2 GetLobSystemAllAssembliesBytesResponse

The **GetLobSystemAllAssembliesBytesResponse** element specifies the result data for the **GetLobSystemAllAssembliesBytes WSDL operation**.

```
<xs:element name="GetLobSystemAllAssembliesBytesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
type="q9:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemAllAssembliesBytesResult: The list of **Business Logic Modules**. If the specified **LobSystem** is not associated with any Business Logic Module, the protocol server MUST set the value of the element to NULL.

3.1.4.61.3 Complex Types

None.

3.1.4.61.4 Simple Types

None.

3.1.4.61.5 Attributes

None.

3.1.4.61.6 Groups

None.

3.1.4.61.7 Attribute Groups

None.

3.1.4.62 GetLobSystemById

The **GetLobSystemById** operation retrieves the **LobSystem** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetLobSystemById WSDL operation**.

```
<wsdl:operation name="GetLobSystemById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemById_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The specified LobSystem does not exist, the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, and the performErrorCheck element in the GetLobSystemById operation is set to "False".
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A LobSystem with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.62.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemById_InputMessage	The request WSDL message for the GetLobSystemById WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage	The response WSDL message for the GetLobSystemById WSDL operation .

3.1.4.62.1.1 BusinessDataCatalogSharedService_GetLobSystemById_InputMessage

The request **WSDL message** for the **GetLobSystemById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById
```

The **SOAP body** contains the **GetLobSystemById** element.

3.1.4.62.1.2 BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage

The response **WSDL message** for the **GetLobSystemById WSDL operation**.

The **SOAP body** contains the **GetLobSystemByIdResponse** element.

3.1.4.62.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemById	The input data for the GetLobSystemById WSDL operation .
GetLobSystemByIdResponse	The result data for the GetLobSystemById WSDL operation .

3.1.4.62.2.1 GetLobSystemById

The **GetLobSystemById** element specifies the input data for the **GetLobSystemById WSDL operation**.

```
<xs:element name="GetLobSystemById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem** that is to be retrieved.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **LobSystem** with the specified **MetadataObjectId** exists. If a **LobSystem** with the specified **MetadataObjectId** does not exist, the **CameThroughRemoteAdminService** header specified in section 3.1 is not present in the SOAP request and this element is set to "false", the protocol server MUST set the value of the **GetLobSystemByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.62.2.2 GetLobSystemByIdResponse

The **GetLobSystemByIdResponse** element specifies the result data for the **GetLobSystemById** **WSDL operation**.

```
<xs:element name="GetLobSystemByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemByIdResult: The **LobSystem**. The **partition** of the **LobSystem** MUST be the partition of the protocol client.

3.1.4.62.3 Complex Types

None.

3.1.4.62.4 Simple Types

None.

3.1.4.62.5 Attributes

None.

3.1.4.62.6 Groups

None.

3.1.4.62.7 Attribute Groups

None.

3.1.4.63 GetLobSystemByName

The **GetLobSystemByName** operation retrieves the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetLobSystemByName** **WSDL operation**.

```
<wsdl:operation name="GetLobSystemByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionF
ault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to read<81> the specified LobSystem , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP

Error complex type	Condition
	request.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified name exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.

3.1.4.63.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage	The request WSDL message for the GetLobSystemByName WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage	The response WSDL message for the GetLobSystemByName WSDL operation .

3.1.4.63.1.1 BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage

The request **WSDL message** for the **GetLobSystemByName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName
```

The **SOAP body** contains the **GetLobSystemByName** element.

3.1.4.63.1.2 BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage

The response **WSDL message** for the **GetLobSystemByName WSDL operation**.

The **SOAP body** contains the **GetLobSystemByNameResponse** element.

3.1.4.63.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemByName	The input data for the GetLobSystemByName WSDL operation .
GetLobSystemByNameResponse	The result data for the GetLobSystemByName WSDL operation .

3.1.4.63.2.1 GetLobSystemByName

The **GetLobSystemByName** element specifies the input data for the **GetLobSystemByName WSDL operation**.

```
<xs:element name="GetLobSystemByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the **LobSystem**.

partitionId: The **partition** of the protocol client.

3.1.4.63.2.2 GetLobSystemByNameResponse

The **GetLobSystemByNameResponse** element specifies the result data for the **GetLobSystemByName WSDL operation**.

```
<xs:element name="GetLobSystemByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemByNameResult: The **LobSystem** with the specified name. The **partition** of this **LobSystem** MUST be the partition of the protocol client.

3.1.4.63.3 Complex Types

None.

3.1.4.63.4 Simple Types

None.

3.1.4.63.5 Attributes

None.

3.1.4.63.6 Groups

None.

3.1.4.63.7 Attribute Groups

None.

3.1.4.64 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** operation retrieves **Business Logic Modules** <82> associated with the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetLobSystemDataByLobSystem WSDL operation**.

```
<wsdl:operation name="GetLobSystemDataByLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified LobSystem , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero ("0").<83>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.<84>

3.1.4.64.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage	The request WSDL message for the GetLobSystemDataByLobSystem WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage	The response WSDL message for the GetLobSystemDataByLobSystem WSDL operation .

3.1.4.64.1.1 BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage

The request **WSDL message** for the **GetLobSystemDataByLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem
```

The **SOAP body** contains the **GetLobSystemDataByLobSystem** element.

3.1.4.64.1.2 BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage

The response **WSDL message** for the **GetLobSystemDataByLobSystem WSDL operation**.

The **SOAP body** contains the **GetLobSystemDataByLobSystemResponse** element.

3.1.4.64.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemDataByLobSystem	The input data for the GetLobSystemDataByLobSystem WSDL operation .
GetLobSystemDataByLobSystemResponse	The result data for the GetLobSystemDataByLobSystem WSDL operation .

3.1.4.64.2.1 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** element specifies the input data for the **GetLobSystemDataByLobSystem WSDL operation**.

```
<xs:element name="GetLobSystemDataByLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem**. The **partition** of this **LobSystem** MUST be the partition of the protocol client.

3.1.4.64.2.2 GetLobSystemDataByLobSystemResponse

The **GetLobSystemDataByLobSystemResponse** element specifies the result data for the **GetLobSystemDataByLobSystem WSDL operation**.

```
<xs:element name="GetLobSystemDataByLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
```

```

minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

GetLobSystemDataByLobSystemResult: The information about the **Business Logic Modules** <85> associated with the specified **LobSystem**.

3.1.4.64.3 Complex Types

None.

3.1.4.64.4 Simple Types

None.

3.1.4.64.5 Attributes

None.

3.1.4.64.6 Groups

None.

3.1.4.64.7 Attribute Groups

None.

3.1.4.65 GetLobSystemInstanceById

The **GetLobSystemInstanceById** operation retrieves the **LobSystemInstance** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetLobSystemInstanceById WSDL operation**.

```

<wsdl:operation name="GetLobSystemInstanceById"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExce
ptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExcept
ionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The specified LobSystemInstance does not exist, and the CameThroughRemoteAdminService

Error complex type	Condition
	ce header specified in section 3.1 is present in the SOAP request, and the performErrorCheck element in the request is set to "False".
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A LobSystemInstance with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.65.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage	The request WSDL message for the GetLobSystemInstanceById WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage	The response WSDL message for the GetLobSystemInstanceById WSDL operation .

3.1.4.65.1.1 BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage

The request **WSDL message** for the **GetLobSystemInstanceById WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **GetLobSystemInstanceById** element.

3.1.4.65.1.2 BusinessDataCatalogSharedService_GetLobSystemInstanceById_Output Message

The response **WSDL message** for the **GetLobSystemInstanceById WSDL operation**.

The **SOAP body** contains the **GetLobSystemInstanceByIdResponse** element.

3.1.4.65.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemInstanceById	The input data for the GetLobSystemInstanceById WSDL operation .
GetLobSystemInstanceByIdResponse	The result data for the GetLobSystemInstanceById WSDL operation .

3.1.4.65.2.1 GetLobSystemInstanceById

The **GetLobSystemInstanceById** element specifies the input data for the **GetLobSystemInstanceById WSDL operation**.

```
<xs:element name="GetLobSystemInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemInstanceId: The **MetadataObjectId** of the **LobSystemInstance**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **LobSystemInstance** with the specified **MetadataObjectId** exists. If a **LobSystemInstance** with the specified **MetadataObjectId** does not exist, the **CameThroughRemoteAdminService** header specified in section 3.1 is not present in the SOAP request and this element is set to "false", the protocol server MUST set the value of the **GetLobSystemInstanceByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.65.2.2 GetLobSystemInstanceByIdResponse

The **GetLobSystemInstanceByIdResponse** element specifies the result data for the **GetLobSystemInstanceById WSDL operation**.

```

<xs:element name="GetLobSystemInstanceByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="q5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetLobSystemInstanceByIdResult: The **LobSystemInstance**. The **partition** of this **LobSystemInstance** MUST be the partition of the protocol client.

3.1.4.65.3 Complex Types

None.

3.1.4.65.4 Simple Types

None.

3.1.4.65.5 Attributes

None.

3.1.4.65.6 Groups

None.

3.1.4.65.7 Attribute Groups

None.

3.1.4.66 GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** operation retrieves the list of **LobSystemInstances** of the specified **LobSystem**. If the **CameThroughRemoteAdminService** header specified in section [3.1](#) is present in the SOAP request, only the **LobSystemInstances** that the **security principal** in whose context the protocol client is operating is authorized to read [<86>](#) that are also contained by the specified **LobSystem** are retrieved.

The following is the **WSDL** port type specification of the **GetLobSystemInstancesForLobSystem WSDL operation**.

```

<wsdl:operation name="GetLobSystemInstancesForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
    name="ArgumentExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullE
xceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOf
RangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<87>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.<88>

3.1.4.66.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage	The request WSDL message for the GetLobSystemInstancesForLobSystem WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage	The response WSDL message for the GetLobSystemInstancesForLobSystem WSDL operation .

3.1.4.66.1.1 BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage

The request **WSDL message** for the **GetLobSystemInstancesForLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem
```

The **SOAP body** contains the **GetLobSystemInstancesForLobSystem** element.

3.1.4.66.1.2 BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage

The response **WSDL message** for the **GetLobSystemInstancesForLobSystem WSDL operation**.

The **SOAP body** contains the **GetLobSystemInstancesForLobSystemResponse** element.

3.1.4.66.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemInstancesForLobSystem	The input data for the GetLobSystemInstancesForLobSystem WSDL operation .
GetLobSystemInstancesForLobSystemResponse	The result data for the GetLobSystemInstancesForLobSystem WSDL operation .

3.1.4.66.2.1 GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** element specifies the input data for the **GetLobSystemInstancesForLobSystem WSDL operation**.

```
<xs:element name="GetLobSystemInstancesForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```



```

    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

partitionId: The **partition** of the protocol client.

3.1.4.66.2 GetLobSystemInstancesForLobSystemResponse

The **GetLobSystemInstancesForLobSystemResponse** element specifies the result data for the **GetLobSystemInstancesForLobSystem WSDL operation**.

```

<xs:element name="GetLobSystemInstancesForLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="q5:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetLobSystemInstancesForLobSystemResult: The list of **LobSystemInstances** of the specified **LobSystem**. The partition (1) of these **LobSystemInstances** MUST be the partition (1) of the protocol client.

3.1.4.66.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfLobSystemInstanceStruct	Contains a list of LobSystemInstances .

3.1.4.66.3.1 ArrayOfLobSystemInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type contains a list of **LobSystemInstances**.

```

<xs:complexType name="ArrayOfLobSystemInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="q5:LobSystemInstanceStruct"/>
  </xs:sequence>
</xs:complexType>

```

LobSystemInstanceStruct: This element contains information about a **LobSystemInstance**.

3.1.4.66.4 Simple Types

None.

3.1.4.66.5 Attributes

None.

3.1.4.66.6 Groups

None.

3.1.4.66.7 Attribute Groups

None.

3.1.4.67 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** operation retrieves the implementation-specific **Business Logic Module** [<89>](#) associated with the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetLobSystemProxyAssemblyBytesByLobSystemId** **WSDL operation**.

```
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
      edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId Inp
      utMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
      wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
        edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
      message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId Out
        putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
      <wsdl:fault
        wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
          edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
        name="ArgumentExceptionFault"
        message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId Arg
          umentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          <wsdl:fault
            wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
              edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
            name="ArgumentNullExceptionFault"
            message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId Arg
              umentNullExceptionFault_FaultMessage"
            xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
            <wsdl:fault
              wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
                edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
              name="ArgumentOutOfRangeExceptionFault"
              message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId Arg
                umentOutOfRangeExceptionFault_FaultMessage"
              xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
              <wsdl:fault
                wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
                  edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
                name="BdcExceptionStateFault"
                message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bdc
                  ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
                <wsdl:fault
                  wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemProxyAssemblyBytesByLobSystemId InvalidOperationExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemProxyAssemblyBytesByLobSystemId MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to read<90> the specified LobSystem , and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero ("0").
InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem has an invalid value for the Property named SystemUtilityTypeName . Validity of this Property is specified in section 3.1.4.83.2.2.

3.1.4.67.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage	The request WSDL message for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage	The response WSDL message for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .

3.1.4.67.1.1 BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage

The request **WSDL message** for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId
```

The **SOAP body** contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

3.1.4.67.1.2 BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage

The response **WSDL message** for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

The **SOAP body** contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

3.1.4.67.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemProxyAssemblyBytesByLobSystemId	The input data for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .
GetLobSystemProxyAssemblyBytesByLobSystemIdResponse	The result data for the GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation .

3.1.4.67.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** element specifies the input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

LobSystemStruct: The **LobSystem** from which to retrieve the implementation-specific **Business Logic Module**. The **partition** of this **LobSystem** MUST be the partition of the protocol client.

3.1.4.67.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element specifies the result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation**.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
        nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemProxyAssemblyBytesByLobSystemIdResult: The implementation-specific **Business Logic Module** [<91>](#) associated with the specified **LobSystem**. If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the first defined **Business Logic Module**, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23. If the **LobSystem** does not exist or no **Business Logic Module** is found for the specified **LobSystem**, this element MUST be NULL.

3.1.4.67.3 Complex Types

None.

3.1.4.67.4 Simple Types

None.

3.1.4.67.5 Attributes

None.

3.1.4.67.6 Groups

None.

3.1.4.67.7 Attribute Groups

None.

3.1.4.68 GetLobSystemsLikeName

The **GetLobSystemsLikeName** operation retrieves the **LobSystems** that match the specified wildcard pattern.

If the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, only the **LobSystems** that the **security principal** in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.

A **LobSystem** matches the wildcard pattern specified by **searchLikeName** if any of the following conditions is true:

- The **searchLikeName** matches the name of the **LobSystem**.
- The **searchLikeName** matches the **localized name** of the **LobSystem** and the **LobSystem's** localized name has its **language code identifier (LCID)** set to zero or set to the **LCID** specified by **callerCultureLcid**.

The following is the **WSDL** port type specification of the **GetLobSystemsLikeName WSDL operation**.

```
<wsdl:operation name="GetLobSystemsLikeName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid.

3.1.4.68.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage	The request WSDL message for the GetLobSystemsLikeName WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage	The response WSDL message for the GetLobSystemsLikeName WSDL operation .

3.1.4.68.1.1 BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage

The request **WSDL message** for the **GetLobSystemsLikeName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName
```

The **SOAP body** contains the **GetLobSystemsLikeName** element.

3.1.4.68.1.2 BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage

The response **WSDL message** for the **GetLobSystemsLikeName WSDL operation**.

The **SOAP body** contains the **GetLobSystemsLikeNameResponse** element.

3.1.4.68.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemsLikeName	The input data for the GetLobSystemsLikeName WSDL operation .
GetLobSystemsLikeNameResponse	The result data for the GetLobSystemsLikeName WSDL operation .

3.1.4.68.2.1 GetLobSystemsLikeName

The **GetLobSystemsLikeName** element specifies the input data for the **GetLobSystemsLikeName WSDL operation**.

```
<xs:element name="GetLobSystemsLikeName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

searchLikeName: The wildcard pattern to be used to retrieve the **LobSystems** in which the name or **localized name** matches the wildcard pattern. The following code example shows the **ABNF** for the **searchLikeName**.

```
searchLikeName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **LobSystems** with the value of "searchLikeName" when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows.

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

callerCultureLcid: The **language code identifier (LCID)** representing the locale to be used when retrieving the **LobSystems**.

partitionId: The **partition** of the protocol client.

3.1.4.68.2.2 GetLobSystemsLikeNameResponse

The **GetLobSystemsLikeNameResponse** element specifies the result data for the **GetLobSystemsLikeName WSDL operation**.


```

<xs:element name="GetLobSystemsLikeNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetLobSystemsLikeNameResult: The list of **LobSystems**. The **partition** of these **LobSystems** MUST be the partition of the protocol client.

3.1.4.68.3 Complex Types

None.

3.1.4.68.4 Simple Types

None.

3.1.4.68.5 Attributes

None.

3.1.4.68.6 Groups

None.

3.1.4.68.7 Attribute Groups

None.

3.1.4.69 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** operation retrieves the **LobSystems** referenced by **Entities** associated with the specified **Model**. If the **CameThroughRemoteAdminService** header specified in section [3.1](#) is present in the SOAP request, only the **LobSystems** that the **security principal** in whose context the protocol client is operating is authorized to read [<92>](#) that are also referenced by **Entities** associated with the specified **Model** are retrieved.

The following is the **WSDL** port type specification of the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation**.

```

<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
    name="ArgumentExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"). <93>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist. <94>

3.1.4.69.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage	The request WSDL message for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation .
BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage	The response WSDL message for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation .

3.1.4.69.1.1 BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage

The request **WSDL message** for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel>

The **SOAP body** contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

3.1.4.69.1.2 BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage

The response **WSDL message** for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation**.

The **SOAP body** contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

3.1.4.69.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetLobSystemsReferencedByEntitiesAssociatedWithModel	The input data for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation .
GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse	The result data for the GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation .

3.1.4.69.2.1 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element specifies the input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** **WSDL operation**.

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
  xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
  aModel.Constants" minOccurs="0" name="queryMode"
  type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelId: The **MetadataObjectId** of the specified **Model**.

queryMode: The mode that specifies the **LobSystems** to be retrieved. This value MUST be an **LobSystemConstants.LobSystemsInModelQuery** element.

partitionId: The **partition** of the protocol client.

3.1.4.69.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element specifies the result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** **WSDL operation**.

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
  name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
  type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemsReferencedByEntitiesAssociatedWithModelResult: The list of **LobSystems**. The **partition** of these **LobSystems** MUST be the partition of the protocol client.

3.1.4.69.3 Complex Types

None.

3.1.4.69.4 Simple Types

The following table summarizes the **XML schema** simple type definitions that are specific to this operation.

Simple type	Description
LobSystemConstants.LobSystemsInModelQuery	Specifies the mode in which to retrieve LobSystems .

3.1.4.69.4.1 LobSystemConstants.LobSystemsInModelQuery

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode that determines the **LobSystems** to be retrieved.

```
<xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllLobSystemsInModel"/>
    <xs:enumeration value="OwnedLobSystemsInModel"/>
    <xs:enumeration value="SharedLobSystemsInModel"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **LobSystemConstants.LobSystemsInModelQuery** simple type.

Value	Meaning
AllLobSystemsInModel	All LobSystems referenced by the specified Model .
OwnedLobSystemsInModel	LobSystems referenced only by the specified Model . The returned LobSystems MUST NOT include LobSystems that are referenced by other Models .
SharedLobSystemsInModel	LobSystems referenced by the specified Model and by other Models . The returned LobSystems MUST NOT include LobSystems that are referenced only by the specified Model .

3.1.4.69.5 Attributes

None.

3.1.4.69.6 Groups

None.

3.1.4.69.7 Attribute Groups

None.

3.1.4.70 GetMethodById

The **GetMethodById** operation retrieves the **Method** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetMethodById WSDL operation**.

```
<wsdl:operation name="GetMethodById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Method with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.70.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodById_InputMessage	The request WSDL message for the GetMethodById WSDL operation .
BusinessDataCatalogSharedService_GetMethodById_OutputMessage	The response WSDL message for the GetMethodById WSDL operation .

3.1.4.70.1.1 BusinessDataCatalogSharedService_GetMethodById_InputMessage

The request **WSDL message** for the **GetMethodById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById
```

The **SOAP body** contains the **GetMethodById** element.

3.1.4.70.1.2 BusinessDataCatalogSharedService_GetMethodById_OutputMessage

The response **WSDL message** for the **GetMethodById WSDL operation**.

The **SOAP body** contains the **GetMethodByIdResponse** element.

3.1.4.70.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodById	The input data for the GetMethodById WSDL operation .
GetMethodByIdResponse	The result data for the GetMethodById WSDL operation .

3.1.4.70.2.1 GetMethodById

The **GetMethodById** element specifies the input data for the **GetMethodById WSDL operation**.

```
<xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

methodId: The **MetadataObjectId** for the **Method**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **Method** with the specified **MetadataObjectId** exists. If a **Method** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.70.2.2 GetMethodByIdResponse

The **GetMethodByIdResponse** element specifies the result data for the **GetMethodById WSDL operation**.

```
<xs:element name="GetMethodByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="q5:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodByIdResult: The **Method**. The **partition** of this **Method** MUST be the partition of the protocol client.

3.1.4.70.3 Complex Types

None.

3.1.4.70.4 Simple Types

None.

3.1.4.70.5 Attributes

None.

3.1.4.70.6 Groups

None.

3.1.4.70.7 Attribute Groups

None.

3.1.4.71 GetMethodInstanceById

The **GetMethodInstanceById** operation retrieves the **MethodInstance** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetMethodInstanceById WSDL operation**.


```

<wsdl:operation name="GetMethodInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionExcepi
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A MethodInstance with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the

Error complex type	Condition
	performErrorCheck element is set to "true".

3.1.4.71.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage	The request WSDL message for the GetMethodInstanceById WSDL operation .
BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage	The response WSDL message for the GetMethodInstanceById WSDL operation .

3.1.4.71.1.1 BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage

The request **WSDL message** for the **GetMethodInstanceById WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById>

The **SOAP body** contains the **GetMethodInstanceById** element.

3.1.4.71.1.2 BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage

The response **WSDL message** for the **GetMethodInstanceById WSDL operation**.

The **SOAP body** contains the **GetMethodInstanceByIdResponse** element.

3.1.4.71.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodInstanceById	The input data for the GetMethodInstanceById WSDL operation .
GetMethodInstanceByIdResponse	The result data for the GetMethodInstanceById WSDL operation .

3.1.4.71.2.1 GetMethodInstanceById

The **GetMethodInstanceById** element specifies the input data for the **GetMethodInstanceById WSDL operation**.

```
<xs:element name="GetMethodInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodInstanceId: The **MetadataObjectId** of the **MethodInstance**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **MethodInstance** with the specified **MetadataObjectId** exists. If a **MethodInstance** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetMethodInstanceByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.71.2.2 GetMethodInstanceByIdResponse

The **GetMethodInstanceByIdResponse** element specifies the result data for the **GetMethodInstanceById WSDL operation**.

```
<xs:element name="GetMethodInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstanceByIdResult: The **MethodInstance**. The **partition** of this **MethodInstance** MUST be the partition of the protocol client.

3.1.4.71.3 Complex Types

None.

3.1.4.71.4 Simple Types

None.

3.1.4.71.5 Attributes

None.

3.1.4.71.6 Groups

None.

3.1.4.71.7 Attribute Groups

None.

3.1.4.72 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** operation retrieves the **MethodInstances** contained by the **Methods** contained by the specified **DataClass**.

The following is the **WSDL** port type specification of the **GetMethodInstancesForDataClass WSDL operation**.

```
<wsdl:operation name="GetMethodInstancesForDataClass"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperatio
nExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist. <95>

3.1.4.72.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage	The request WSDL message for the GetMethodInstancesForDataClass WSDL operation .
BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage	The response WSDL message for the GetMethodInstancesForDataClass WSDL operation .

3.1.4.72.1.1 BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage

The request **WSDL message** for the **GetMethodInstancesForDataClass WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass
```

The **SOAP body** contains the **GetMethodInstancesForDataClass** element.

3.1.4.72.1.2 BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage

The response **WSDL message** for the **GetMethodInstancesForDataClass WSDL operation**.

The **SOAP body** contains the **GetMethodInstancesForDataClassResponse** element.

3.1.4.72.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodInstancesForDataClass	The input data for the GetMethodInstancesForDataClass WSDL operation .
GetMethodInstancesForDataClassResponse	The result data for the GetMethodInstancesForDataClass WSDL operation .

3.1.4.72.2.1 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** element specifies the input data for the **GetMethodInstancesForDataClass WSDL operation**.

```
<xs:element name="GetMethodInstancesForDataClass"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**.

partitionId: The **partition** of the protocol client.

3.1.4.72.2.2 GetMethodInstancesForDataClassResponse

The **GetMethodInstancesForDataClassResponse** element specifies the result data for the **GetMethodInstancesForDataClass WSDL operation**.

```
<xs:element name="GetMethodInstancesForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForDataClassResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstancesForDataClassResult: The list of **MethodInstances**. The **partition** of these **MethodInstances** MUST be the partition of the protocol client.

3.1.4.72.3 Complex Types

None.

3.1.4.72.4 Simple Types

None.

3.1.4.72.5 Attributes

None.

3.1.4.72.6 Groups

None.

3.1.4.72.7 Attribute Groups

None.

3.1.4.73 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** operation retrieves the **MethodInstances** contained by the specified **Method**.

The following is the **WSDL** port type specification of the **GetMethodInstancesForMethod WSDL operation**.

```
<wsdl:operation name="GetMethodInstancesForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Method does not exist. <96>

3.1.4.73.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage	The request WSDL message for the GetMethodInstancesForMethod WSDL operation .
BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage	The response WSDL message for the GetMethodInstancesForMethod WSDL operation .

3.1.4.73.1.1 BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage

The request **WSDL message** for the **GetMethodInstancesForMethod WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod

```

The **SOAP body** contains the **GetMethodInstancesForMethod** element.

3.1.4.73.1.2 BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage

The response **WSDL message** for the **GetMethodInstancesForMethod WSDL operation**.

The **SOAP body** contains the **GetMethodInstancesForMethodResponse** element.

3.1.4.73.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodInstancesForMethod	The input data for the GetMethodInstancesForMethod WSDL operation .
GetMethodInstancesForMethodResponse	The result data for the GetMethodInstancesForMethod WSDL operation .

3.1.4.73.2.1 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** element specifies the input data for the **GetMethodInstancesForMethod WSDL operation**.

```
<xs:element name="GetMethodInstancesForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method**.

partitionId: The **partition** of the protocol client.

3.1.4.73.2.2 GetMethodInstancesForMethodResponse

The **GetMethodInstancesForMethodResponse** element specifies the result data for the **GetMethodInstancesForMethod WSDL operation**.

```
<xs:element name="GetMethodInstancesForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstancesForMethodResult: The list of **MethodInstances**. The partition (1) of each of these **MethodInstances** MUST be the partition (1) of the protocol client.

3.1.4.73.3 Complex Types

None.

3.1.4.73.4 Simple Types

None.

3.1.4.73.5 Attributes

None.

3.1.4.73.6 Groups

None.

3.1.4.73.7 Attribute Groups

None.

3.1.4.74 GetMethodsForDataClass

The **GetMethodsForDataClass** operation retrieves the **Methods** contained by the specified **DataClass**.

The following is the **WSDL** port type specification of the **GetMethodsForDataClass WSDL operation**.

```
<wsdl:operation name="GetMethodsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<97>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist.<98>

3.1.4.74.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage	The request WSDL message for the GetMethodsForDataClasses WSDL operation .
BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage	The response WSDL message for the GetMethodsForDataClasses WSDL operation .

3.1.4.74.1.1 BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage

The request **WSDL message** for the **GetMethodsForDataClass WSDL operation**.

The **SOAP action** value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass

The **SOAP body** contains the **GetMethodsForDataClass** element.

3.1.4.74.1.2 BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage

The response **WSDL message** for the **GetMethodsForDataClass WSDL operation**.

The **SOAP body** contains the **GetMethodsForDataClassResponse** element.

3.1.4.74.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetMethodsForDataClass	The input data for the GetMethodsForDataClass WSDL operation .
GetMethodsForDataClassResponse	The result data for the GetMethodsForDataClass WSDL operation .

3.1.4.74.2.1 GetMethodsForDataClass

The **GetMethodsForDataClass** element specifies the input data for the **GetMethodsForDataClass WSDL operation**.

```
<xs:element name="GetMethodsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The **MetadataObjectId** of the **DataClass**.

partitionId: The **partition** of the protocol client.

3.1.4.74.2.2 GetMethodsForDataClassResponse

The **GetMethodsForDataClassResponse** element specifies the result data for the **GetMethodsForDataClass WSDL operation**.

```
<xs:element name="GetMethodsForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="q5:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

GetMethodsForDataClassResult: The list of **Methods**. The partition (1) of these **Methods** MUST be the partition (1) of the protocol client.

3.1.4.74.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfMethodStruct	Contains a list of Methods .

3.1.4.74.3.1 ArrayOfMethodStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of **Methods**.

```
<xs:complexType name="ArrayOfMethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
      type="q5:MethodStruct"/>
  </xs:sequence>
</xs:complexType>
```

MethodStruct: This element contains information about a **Method**.

3.1.4.74.4 Simple Types

None.

3.1.4.74.5 Attributes

None.

3.1.4.74.6 Groups

None.

3.1.4.74.7 Attribute Groups

None.

3.1.4.75 GetModelById

The **GetModelById** operation retrieves the **Model** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetModelById WSDL operation**.

```
<wsdl:operation name="GetModelById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetModelById"
message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Model with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.75.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelById_InputMessage	The request WSDL message for the GetModelById WSDL operation .
BusinessDataCatalogSharedService_GetModelById_OutputMessage	The response WSDL message for the GetModelById WSDL operation .

3.1.4.75.1.1 BusinessDataCatalogSharedService_GetModelById_InputMessage

The request **WSDL message** for the **GetModelById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById
```

The **SOAP body** contains the **GetModelById** element.

3.1.4.75.1.2 BusinessDataCatalogSharedService_GetModelById_OutputMessage

The response **WSDL message** for the **GetModelById WSDL operation**.

The **SOAP body** contains the **GetModelByIdResponse** element.

3.1.4.75.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelById	The input data for the GetModelById WSDL operation .
GetModelByIdResponse	The result data for the GetModelById WSDL operation .

3.1.4.75.2.1 GetModelById

The **GetModelById** element specifies the input data for the **GetModelById WSDL operation**.

```
<xs:element name="GetModelById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelId: The **MetadataObjectId** of the **Model**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **Model** with the specified **MetadataObjectId** exists. If a **Model** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.75.2.2 GetModelByIdResponse

The **GetModelByIdResponse** element specifies the result data for the **GetModelById WSDL operation**.

```
<xs:element name="GetModelByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelByIdResult: The **Model**. The **partition** of this **Model** MUST be the partition of the protocol client.

3.1.4.75.3 Complex Types

None.

3.1.4.75.4 Simple Types

None.

3.1.4.75.5 Attributes

None.

3.1.4.75.6 Groups

None.

3.1.4.75.7 Attribute Groups

None.

3.1.4.76 GetModelByName

The **GetModelByName** operation retrieves the specified **Model**.

The following is the **WSDL** port type specification of the **GetModelByName WSDL operation**.

```
<wsdl:operation name="GetModelByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelByName_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified name exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist.

3.1.4.76.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelByName_InputMessage	The request WSDL message for the GetModelByName WSDL operation .
BusinessDataCatalogSharedService_GetModelByName_OutputMessage	The response WSDL message for the GetModelByName WSDL operation .

3.1.4.76.1.1 BusinessDataCatalogSharedService_GetModelByName_InputMessage

The request **WSDL message** for the **GetModelByName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName
```

The **SOAP body** contains the **GetModelByName** element.

3.1.4.76.1.2 BusinessDataCatalogSharedService_GetModelByName_OutputMessage

The response **WSDL message** for the **GetModelByName WSDL operation**.

The **SOAP body** contains the **GetModelByNameResponse** element.

3.1.4.76.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelByName	The input data for the GetModelByName WSDL operation .
GetModelByNameResponse	The result data for the GetModelByName WSDL operation .

3.1.4.76.2.1 GetModelByName

The **GetModelByName** element specifies the input data for the **GetModelByName WSDL operation**.

```
<xs:element name="GetModelByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the **Model**.

partitionId: The **partition** of the protocol client.

3.1.4.76.2 GetModelByNameResponse

The **GetModelByNameResponse** element specifies the result data for the **GetModelByName WSDL operation**.

```
<xs:element name="GetModelByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelByNameResult: The **Model**. The **partition** of this **Model** MUST be the partition of the protocol client.

3.1.4.76.3 Complex Types

None.

3.1.4.76.4 Simple Types

None.

3.1.4.76.5 Attributes

None.

3.1.4.76.6 Groups

None.

3.1.4.76.7 Attribute Groups

None.

3.1.4.77 GetModelsByEntityId

The **GetModelsByEntityId** operation retrieves the **Models** that reference the specified **Entity**.

The following is the **WSDL** port type specification of the **GetModelsByEntityId WSDL operation**.

```
<wsdl:operation name="GetModelsByEntityId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist. <99>

3.1.4.77.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage	The request WSDL message for the GetModelsByEntityId

Message	Description
	WSDL operation.
BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage	The response WSDL message for the GetModelsByEntityId WSDL operation.

3.1.4.77.1.1 BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage

The request **WSDL message** for the **GetModelsByEntityId** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId
```

The **SOAP body** contains the **GetModelsByEntityId** element.

3.1.4.77.1.2 BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage

The response **WSDL message** for the **GetModelsByEntityId** **WSDL operation**.

The **SOAP body** contains the **GetModelsByEntityIdResponse** element.

3.1.4.77.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelsByEntityId	The input data for the GetModelsByEntityId WSDL operation .
GetModelsByEntityIdResponse	The result data for the GetModelsByEntityId WSDL operation.

3.1.4.77.2.1 GetModelsByEntityId

The **GetModelsByEntityId** element specifies the input data for the **GetModelsByEntityId** **WSDL operation**.

```
<xs:element name="GetModelsByEntityId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The **MetadataObjectId** of the **Entity**.

partitionId: The **partition** of the protocol client.

3.1.4.77.2 GetModelsByEntityIdResponse

The **GetModelsByEntityIdResponse** element specifies the result data for the **GetModelsByEntityId WSDL operation**.

```
<xs:element name="GetModelsByEntityIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="q5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelsByEntityIdResult: The list of **Models**. The **partition** of these **Models** MUST be the partition of the protocol client.

3.1.4.77.3 Complex Types

None.

3.1.4.77.4 Simple Types

None.

3.1.4.77.5 Attributes

None.

3.1.4.77.6 Groups

None.

3.1.4.77.7 Attribute Groups

None.

3.1.4.78 GetModelsByName

The **GetModelsByName** operation retrieves the **Models** that match the specified wildcard pattern.

A **Model** matches the wildcard pattern specified by **wildcardedName** if any of the following conditions is true:

- **WildcardedName** matches the name of the **Model**.
- **WildcardedName** matches the **localized name** of the **Model** and the model's localized name has its LCID set to zero or set to the LCID specified by callerCultureLcid.

The following is the **WSDL** port type specification of the **GetModelsByName WSDL operation**.

```
<wsdl:operation name="GetModelsByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByName"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelsByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelsByName_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid.

3.1.4.78.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetModelsByName_InputMessage	The request WSDL message for the GetModelsByName WSDL operation .
BusinessDataCatalogSharedService_GetModelsByName_OutputMessage	The response WSDL message for the GetModelsByName WSDL operation .

3.1.4.78.1.1 BusinessDataCatalogSharedService_GetModelsByName_InputMessage

The request **WSDL message** for the **GetModelsByName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName
```

The **SOAP body** contains the **GetModelsByName** element.

3.1.4.78.1.2 BusinessDataCatalogSharedService_GetModelsByName_OutputMessage

The response **WSDL message** for the **GetModelsByName WSDL operation**.

The **SOAP body** contains the **GetModelsByNameResponse** element.

3.1.4.78.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetModelsByName	The input data for the GetModelsByName WSDL operation .
GetModelsByNameResponse	The result data for the GetModelsByName WSDL operation .

3.1.4.78.2.1 GetModelsByName

The **GetModelsByName** element specifies the input data for the **GetModelsByName WSDL operation**.

```
<xs:element name="GetModelsByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```


wildcardedName: The wildcard pattern to be used to retrieve the **Models** whose name or **localized name** matches the wildcard pattern. The following code example shows the **ABNF** for the **wildcardedName**.

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **Models** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows.

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = * (%x00-FF)
```

callerCultureLcid: The **language code identifier (LCID)** representing the locale to be used when retrieving the **Models**.

partitionId: The **partition** of the protocol client.

3.1.4.78.2.2 GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName WSDL operation**.

```
<xs:element name="GetModelsByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="q5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelsByNameResult: The list of **Models**. The **partition** of these **Models** **MUST** be the partition of the protocol client.

3.1.4.78.3 Complex Types

None.

3.1.4.78.4 Simple Types

None.

3.1.4.78.5 Attributes

None.

3.1.4.78.6 Groups

None.

3.1.4.78.7 Attribute Groups

None.

3.1.4.79 GetParameterById

The **GetParameterById** operation retrieves the **Parameter** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetParameterById WSDL operation**.

```
<wsdl:operation name="GetParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetParameterById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetParameterById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section

2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Parameter with the specified MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is set to "true".

3.1.4.79.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetParameterById_InputMessage	The request WSDL message for the GetParameterById WSDL operation .
BusinessDataCatalogSharedService_GetParameterById_OutputMessage	The response WSDL message for the GetParameterById WSDL operation .

3.1.4.79.1.1 BusinessDataCatalogSharedService_GetParameterById_InputMessage

The request **WSDL message** for the **GetParameterById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById
```

The **SOAP body** contains the **GetParameterById** element.

3.1.4.79.1.2 BusinessDataCatalogSharedService_GetParameterById_OutputMessage

The response **WSDL message** for the **GetParameterById WSDL operation**.

The **SOAP body** contains the **GetParameterByIdResponse** element.

3.1.4.79.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetParameterById	The input data for the GetParameterById WSDL operation .

Element	Description
GetParameterByIdResponse	The result data for the GetParameterById WSDL operation.

3.1.4.79.2.1 GetParameterById

The **GetParameterById** element specifies the input data for the **GetParameterById WSDL operation**.

```
<xs:element name="GetParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The **MetadataObjectId** of the **Parameter**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **Parameter** with the specified **MetadataObjectId** exists. If a **Parameter** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.79.2.2 GetParameterByIdResponse

The **GetParameterByIdResponse** element specifies the result data for the **GetParameterById WSDL operation**.

```
<xs:element name="GetParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetParameterByIdResult: The **Parameter**. The **partition** of this **Parameter** MUST be the partition of the protocol client.

3.1.4.79.3 Complex Types

None.

3.1.4.79.4 Simple Types

None.

3.1.4.79.5 Attributes

None.

3.1.4.79.6 Groups

None.

3.1.4.79.7 Attribute Groups

None.

3.1.4.80 GetParametersForMethod

The **GetParametersForMethod** operation retrieves the **Parameters** of the specified **Method**.

The following is the **WSDL** port type specification of the **GetParametersForMethod WSDL operation**.

```
<wsdl:operation name="GetParametersForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodResponse"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<100>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Method does not exist.<101>

3.1.4.80.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage	The request WSDL message for the GetParametersForMethod WSDL operation .
BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage	The response WSDL message for the GetParametersForMethod WSDL operation .

3.1.4.80.1.1 BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage

The request **WSDL message** for the **GetParametersForMethod WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod
```

The **SOAP body** contains the **GetParametersForMethod** element.

3.1.4.80.1.2 BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage

The response **WSDL message** for the **GetParametersForMethod WSDL operation**.

The **SOAP body** contains the **GetParametersForMethodResponse** element.

3.1.4.80.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetParametersForMethod	The input data for the GetParametersForMethod WSDL operation .
GetParametersForMethodResponse	The result data for the GetParametersForMethod WSDL operation .

3.1.4.80.2.1 GetParametersForMethod

The **GetParametersForMethod** element specifies the input data for the **GetParametersForMethod WSDL operation**.

```
<xs:element name="GetParametersForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** of the **Method**.

partitionId: The **partition** of the protocol client.

3.1.4.80.2.2 GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod WSDL operation**.

```
<xs:element name="GetParametersForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="q5:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetParametersForMethodResult: The list of **Parameters**. The **partition** of these Parameters MUST be the partition of the protocol client.

3.1.4.80.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfParameterStruct	Contains a list of Parameters .

3.1.4.80.3.1 ArrayOfParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfParameterStruct** complex type contains a list of **Parameters**.

```
<xs:complexType name="ArrayOfParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
      type="q5:ParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

ParameterStruct: A Parameter.

3.1.4.80.4 Simple Types

None.

3.1.4.80.5 Attributes

None.

3.1.4.80.6 Groups

None.

3.1.4.80.7 Attribute Groups

None.

3.1.4.81 GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** operation retrieves the root **TypeDescriptor** of the specified **Parameter**.

The following is the **WSDL** port type specification of the **GetRootTypeDescriptorForParameter WSDL operation**.

```
<wsdl:operation name="GetRootTypeDescriptorForParameter"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Parameter does not exist.

3.1.4.81.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage	The request WSDL message for the

Message	Description
	GetRootTypeDescriptorForParameter WSDL operation.
BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage	The response WSDL message for the GetRootTypeDescriptorForParameter WSDL operation.

3.1.4.81.1.1 BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage

The request **WSDL message** for the **GetRootTypeDescriptorForParameter WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter
```

The **SOAP body** contains the **GetRootTypeDescriptorForParameter** element.

3.1.4.81.1.2 BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage

The response **WSDL message** for the **GetRootTypeDescriptorForParameter WSDL operation.**

The **SOAP body** contains the **GetRootTypeDescriptorForParameterResponse** element.

3.1.4.81.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetRootTypeDescriptorForParameter	The input data for the GetRootTypeDescriptorForParameter WSDL operation.
GetRootTypeDescriptorForParameterResponse	The result data for the GetRootTypeDescriptorForParameter WSDL operation.

3.1.4.81.2.1 GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** element specifies the input data for the **GetRootTypeDescriptorForParameter WSDL operation.**

```
<xs:element name="GetRootTypeDescriptorForParameter"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

parameterId: The **MetadataObjectId** of the **Parameter**.

partitionId: The **partition** of the protocol client.

3.1.4.81.2.2 GetRootTypeDescriptorForParameterResponse

The **GetRootTypeDescriptorForParameterResponse** element specifies the result data for the **GetRootTypeDescriptorForParameter** **WSDL operation**.

```
<xs:element name="GetRootTypeDescriptorForParameterResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetRootTypeDescriptorForParameterResult" nillable="true"
        type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetRootTypeDescriptorForParameterResult: The root **TypeDescriptor** of the **Parameter**. The **partition** of this **TypeDescriptor** MUST be the partition of the protocol client.

3.1.4.81.3 Complex Types

None.

3.1.4.81.4 Simple Types

None.

3.1.4.81.5 Attributes

None.

3.1.4.81.6 Groups

None.

3.1.4.81.7 Attribute Groups

None.

3.1.4.82 GetServiceApplicationId

The **GetServiceApplicationId** operation retrieves the unique implementation-specific identifier of a **metadata store**.

The following is the **WSDL** port type specification of the **GetServiceApplicationId** **WSDL operation**.

```
<wsdl:operation name="GetServiceApplicationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetServiceApplicationId"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage** response message, unless any faults occur.

3.1.4.82.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage	The request WSDL message for the GetServiceApplicationId WSDL operation .
BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage	The response WSDL message for the GetServiceApplicationId WSDL operation .

3.1.4.82.1.1 BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage

The request **WSDL message** for the **GetServiceApplicationId WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId

```

The **SOAP body** contains the **GetServiceApplicationId** element.

3.1.4.82.1.2 BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage

The response **WSDL message** for the **GetServiceApplicationId WSDL operation**.

The **SOAP body** contains the **GetServiceApplicationIdResponse** element.

3.1.4.82.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetServiceApplicationId	The input data for the GetServiceApplicationId WSDL operation .
GetServiceApplicationIdResponse	The result data for the GetServiceApplicationId WSDL operation .

3.1.4.82.2.1 GetServiceApplicationId

The **GetServiceApplicationId** element specifies the input data for the **GetServiceApplicationId WSDL operation**.

```
<xs:element name="GetServiceApplicationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.82.2.2 GetServiceApplicationIdResponse

The **GetServiceApplicationIdResponse** element specifies the result data for the **GetServiceApplicationId WSDL operation**.

```
<xs:element name="GetServiceApplicationIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetServiceApplicationIdResult: The unique implementation-specific identifier of a **metadata store**. The value of the identifier MUST be a **GUID**.

3.1.4.82.3 Complex Types

None.

3.1.4.82.4 Simple Types

None.

3.1.4.82.5 Attributes

None.

3.1.4.82.6 Groups

None.

3.1.4.82.7 Attribute Groups

None.

3.1.4.83 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** operation retrieves the implementation-specific identifier of the module that executes operations in the **line-of-business (LOB) system** corresponding to the specified **LobSystem**.

The following is the **WSDL** port type specification of the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

```
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero "0".
InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem has an invalid value for the Property named SystemUtilityTypeName . Validity of this Property is specified in section 3.1.4.83.2.2 .

3.1.4.83.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage	The request WSDL message for the GetSystemUtilityTypeNameForLobSystem WSDL operation .
BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage	The response WSDL message for the GetSystemUtilityTypeNameForLobSystem WSDL operation .

3.1.4.83.1.1 BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage

The request **WSDL message** for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem
```

The **SOAP body** contains the **GetSystemUtilityTypeNameForLobSystem** element.

3.1.4.83.1.2 BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage

The response **WSDL message** for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

The **SOAP body** contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

3.1.4.83.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetSystemUtilityTypeNameForLobSystem	The input data for the GetSystemUtilityTypeNameForLobSystem WSDL operation .
GetSystemUtilityTypeNameForLobSystemResponse	The result data for the GetSystemUtilityTypeNameForLobSystem WSDL operation .

3.1.4.83.2.1 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** element specifies the input data for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystem"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The **LobSystem**.

3.1.4.83.2.2 GetSystemUtilityTypeNameForLobSystemResponse

The **GetSystemUtilityTypeNameForLobSystemResponse** element specifies the result data for the **GetSystemUtilityTypeNameForLobSystem WSDL operation**.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetSystemUtilityTypeNameForLobSystemResult: The implementation-specific [<102>](#) identifier of the module that runs operations in the **line-of-business (LOB) system**.

3.1.4.83.3 Complex Types

None.

3.1.4.83.4 Simple Types

None.

3.1.4.83.5 Attributes

None.

3.1.4.83.6 Groups

None.

3.1.4.83.7 Attribute Groups

None.

3.1.4.84 GetThrottlingRules

The **GetThrottlingRules** operation retrieves all **throttle configuration settings** used by the protocol server.

The following is the **WSDL** port type specification of the **GetThrottlingRules WSDL operation**.

```
<wsdl:operation name="GetThrottlingRules" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesResponse"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage** response message, unless any faults occur.

3.1.4.84.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage	The request WSDL message for the GetThrottlingRules WSDL operation .
BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage	The response WSDL message for the GetThrottlingRules WSDL operation .

3.1.4.84.1.1 BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage

The request **WSDL message** for the **GetThrottlingRules WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules
```

The **SOAP body** contains the **GetThrottlingRules** element.

3.1.4.84.1.2 BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage

The response **WSDL message** for the **GetThrottlingRules WSDL operation**.

The **SOAP body** contains the **GetThrottlingRulesResponse** element.

3.1.4.84.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetThrottlingRules	The input data for the GetThrottlingRules WSDL operation .
GetThrottlingRulesResponse	The result data for the GetThrottlingRules WSDL operation .

3.1.4.84.2.1 GetThrottlingRules

The **GetThrottlingRules** element specifies the input data for the **GetThrottlingRules WSDL operation**.

```
<xs:element name="GetThrottlingRules" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.84.2.2 GetThrottlingRulesResponse

The **GetThrottlingRulesResponse** element specifies the result data for the **GetThrottlingRules WSDL operation**.

```

<xs:element name="GetThrottlingRulesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetThrottlingRulesResult" nillable="true" type="q5:ArrayOfSafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetThrottlingRulesResult: The list of **throttle configuration settings**.

3.1.4.84.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfSafetyNetStruct	Contains a list of throttle configuration settings .

3.1.4.84.3.1 ArrayOfSafetyNetStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfSafetyNetStruct** complex type contains a list of **throttle configuration settings**.

```

<xs:complexType name="ArrayOfSafetyNetStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true"
type="q5:SafetyNetStruct"/>
  </xs:sequence>
</xs:complexType>

```

SafetyNetStruct: A throttle configuration setting.

3.1.4.84.4 Simple Types

None.

3.1.4.84.5 Attributes

None.

3.1.4.84.6 Groups

None.

3.1.4.84.7 Attribute Groups

None.

3.1.4.85 GetTypeDescriptorById

The **GetTypeDescriptorById** operation retrieves the **TypeDescriptor** with the specified **MetadataObjectId**.

The following is the **WSDL** port type specification of the **GetTypeDescriptorById WSDL operation**.

```
<wsdl:operation name="GetTypeDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById ArgumentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById ArgumentOutOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding server error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from	A TypeDescriptor with the specified

Error complex type	Condition
namespace Microsoft.SharePoint.BusinessData)	MetadataObjectId does not exist in the partition of the protocol client, and the value of the performErrorCheck element is "true".

3.1.4.85.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage	The request WSDL message for the GetTypeDescriptorById WSDL operation .
BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage	The response WSDL message for the GetTypeDescriptorById WSDL operation .

3.1.4.85.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage

The request **WSDL message** for the **GetTypeDescriptorById WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById
```

The **SOAP body** contains the **GetTypeDescriptorById** element.

3.1.4.85.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage

The response **WSDL message** for the **GetTypeDescriptorById WSDL operation**.

The **SOAP body** contains the **GetTypeDescriptorByIdResponse** element.

3.1.4.85.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeDescriptorById	The input data for the GetTypeDescriptorById WSDL operation .
GetTypeDescriptorByIdResponse	The result data for the GetTypeDescriptorById WSDL operation .

3.1.4.85.2.1 GetTypeDescriptorById

The **GetTypeDescriptorById** element specifies the input data for the **GetTypeDescriptorById WSDL operation**.

```
<xs:element name="GetTypeDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The **MetadataObjectId** of the **TypeDescriptor**.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a **TypeDescriptor** with the specified **MetadataObjectId** exists. If a **TypeDescriptor** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

partitionId: The **partition** of the protocol client.

3.1.4.85.2.2 GetTypeDescriptorByIdResponse

The **GetTypeDescriptorByIdResponse** element specifies the result data for the **GetTypeDescriptorById WSDL operation**.

```
<xs:element name="GetTypeDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorByIdResult: The **TypeDescriptor**. The **partition** of this **TypeDescriptor** MUST be the partition of the protocol client.

3.1.4.85.3 Complex Types

None.

3.1.4.85.4 Simple Types

None.

3.1.4.85.5 Attributes

None.

3.1.4.85.6 Groups

None.

3.1.4.85.7 Attribute Groups

None.

3.1.4.86 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorByNameAndLevelForParameter** operation SHOULD [<103>](#) retrieve the **TypeDescriptors** with the specified name and level contained by the specified **Parameter**. The level of a **TypeDescriptor** is defined as follows:

- The level of the root **TypeDescriptor** is set to zero ("0").
- The level of the specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**.

The following is the **WSDL** port type specification of the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

```
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Ou
tputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Ar
gumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Ar
gumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Bd
cExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
validOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsByNameAndLevelForParameter Me
tadataExceptionStateFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"), or the specified level is less than zero.
BdcExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	Either the Parameter with the specified MetadataObjectId or the specified name of the TypeDescriptor does not exist.

3.1.4.86.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage	The request WSDL message for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .
BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage	The response WSDL message for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .

3.1.4.86.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage

The request **WSDL message** for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **GetTypeDescriptorsByNameAndLevelForParameter** element.

3.1.4.86.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage

The response **WSDL message** for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

The **SOAP body** contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

3.1.4.86.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeDescriptorsByNameAndLevelForParameter	The input data for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .
GetTypeDescriptorsByNameAndLevelForParameterResponse	The result data for the GetTypeDescriptorsByNameAndLevelForParameter WSDL operation .

3.1.4.86.2.1 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** element specifies the input data for the **GetTypeDescriptorsByNameAndLevelForParameter WSDL operation**.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="level" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the **TypeDescriptors** that are retrieved.

parameterId: The **MetadataObjectId** of the **Parameter**.

level: The level of the **TypeDescriptors** that are retrieved.

partitionId: The **partition** of the protocol client.

3.1.4.86.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse

The **GetTypeDescriptorsByNameAndLevelForParameterResponse** element specifies the result data for the **GetTypeDescriptorsByNameAndLevelForParameter** **WSDL operation**.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
        type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorsByNameAndLevelForParameterResult: The list of **TypeDescriptors**. The **partition** of each of these **TypeDescriptors** MUST be the partition of the protocol client.

3.1.4.86.3 Complex Types

None.

3.1.4.86.4 Simple Types

None.

3.1.4.86.5 Attributes

None.

3.1.4.86.6 Groups

None.

3.1.4.86.7 Attribute Groups

None.

3.1.4.87 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** operation retrieves **TypeDescriptors** referenced by the specified **FilterDescriptor**.

The following is the **WSDL** port type specification of the **GetTypeDescriptorsForFilterDescriptor** **WSDL operation**.

```
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor"
    message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentE
xceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentN
ullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentO
utOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor BdcExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOp
erationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataE
xceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId of the FilterDescriptor is set to zero ("0").

3.1.4.87.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage	The request WSDL message for the GetTypeDescriptorsForFilter

Message	Description
	Descriptor WSDL operation.
BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage	The response WSDL message for the GetTypeDescriptorsForFilterDescriptor WSDL operation.

3.1.4.87.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage

The request **WSDL message** for the **GetTypeDescriptorsForFilterDescriptor WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor
```

The **SOAP body** contains the **GetTypeDescriptorsForFilterDescriptor** element.

3.1.4.87.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage

The response **WSDL message** for the **GetTypeDescriptorsForFilterDescriptor WSDL operation.**

The **SOAP body** contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

3.1.4.87.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeDescriptorsForFilterDescriptor	The input data for the GetTypeDescriptorsForFilterDescriptor WSDL operation.
GetTypeDescriptorsForFilterDescriptorResponse	The result data for the GetTypeDescriptorsForFilterDescriptor WSDL operation.

3.1.4.87.2.1 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** element specifies the input data for the **GetTypeDescriptorsForFilterDescriptor WSDL operation.**

```
<xs:element name="GetTypeDescriptorsForFilterDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

filterDescriptorId: The **MetadataObjectId** of the **FilterDescriptor**.

partitionId: The **partition** of the protocol client.

3.1.4.87.2 GetTypeDescriptorsForFilterDescriptorResponse

The **GetTypeDescriptorsForFilterDescriptorResponse** element specifies the result data for the **GetTypeDescriptorsForFilterDescriptor WSDL operation**.

```

<xs:element name="GetTypeDescriptorsForFilterDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetTypeDescriptorsForFilterDescriptorResult: The list of **TypeDescriptors** that are referenced by the specified **FilterDescriptor**. The **partition** of these **TypeDescriptors** MUST be the partition of the protocol client.

3.1.4.87.3 Complex Types

None.

3.1.4.87.4 Simple Types

None.

3.1.4.87.5 Attributes

None.

3.1.4.87.6 Groups

None.

3.1.4.87.7 Attribute Groups

None.

3.1.4.88 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** operation retrieves the implementation-specific name of the type of the **TypeReflector** of the specified **Parameter**.

The following is the **WSDL** port type specification of the **GetTypeReflectorTypeNameForParameter WSDL operation**.

```

<wsdl:operation name="GetTypeReflectorTypeNameForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter ArgumentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter ArgumentOutOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified Parameter is set to zero ("0").

3.1.4.88.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage	The request WSDL message for the GetTypeReflectorTypeNameForParameter WSDL operation .
BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage	The response WSDL message for the GetTypeReflectorTypeNameForParameter WSDL operation .

3.1.4.88.1.1 BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage

The request **WSDL message** for the **GetTypeReflectorTypeNameForParameter WSDL operation**.

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter>

The **SOAP body** contains the **GetTypeReflectorTypeNameForParameter** element.

3.1.4.88.1.2 BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage

The response **WSDL message** for the **GetTypeReflectorTypeNameForParameter WSDL operation**.

The **SOAP body** contains the **GetTypeReflectorTypeNameForParameterResponse** element.

3.1.4.88.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetTypeReflectorTypeNameForParameter	The input data for the GetTypeReflectorTypeNameForParameter WSDL operation .
GetTypeReflectorTypeNameForParameterResponse	The result data for the GetTypeReflectorTypeNameForParameter WSDL operation .

3.1.4.88.2.1 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** element specifies the input data for the **GetTypeReflectorTypeNameForParameter** **WSDL operation**.

```
<xs:element name="GetTypeReflectorTypeNameForParameter"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterStruct: The **Parameter** whose name is to be retrieved by the **TypeReflector**. The **partition** of this **Parameter** MUST be the partition of the protocol client.

3.1.4.88.2.2 GetTypeReflectorTypeNameForParameterResponse

The **GetTypeReflectorTypeNameForParameterResponse** element specifies the result data for the **GetTypeReflectorTypeNameForParameter** **WSDL operation**.

```
<xs:element name="GetTypeReflectorTypeNameForParameterResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
        nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeReflectorTypeNameForParameterResult: The implementation-specific name of the type of the **TypeReflector** of the specified **Parameter**.

3.1.4.88.3 Complex Types

None.

3.1.4.88.4 Simple Types

None.

3.1.4.88.5 Attributes

None.

3.1.4.88.6 Groups

None.

3.1.4.88.7 Attribute Groups

None.

3.1.4.89 GetXmlSchemaForView

The **GetXmlSchemaForView** operation is obsolete and MUST NOT be used.

The following is the **WSDL** port type specification of the **GetXmlSchemaForView WSDL operation**.

```
<wsdl:operation name="GetXmlSchemaForView" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.89.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage	The request WSDL message for the GetXmlSchemaForView WSDL operation .
BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage	The response WSDL message for the

Message	Description
	GetXmlSchemaForView WSDL operation.

3.1.4.89.1.1 BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage

The request **WSDL message** for the **GetXmlSchemaForView WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView
```

The **SOAP body** contains the **GetXmlSchemaForView** element.

3.1.4.89.1.2 BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage

The response **WSDL message** for the **GetXmlSchemaForView WSDL operation**.

The **SOAP body** contains the **GetXmlSchemaForViewResponse** element.

3.1.4.89.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetXmlSchemaForView	The input data for the GetXmlSchemaForView WSDL operation .
GetXmlSchemaForViewResponse	The result data for the GetXmlSchemaForView WSDL operation .

3.1.4.89.2.1 GetXmlSchemaForView

The **GetXmlSchemaForView** element specifies the input data for the **GetXmlSchemaForView WSDL operation**.

```
<xs:element name="GetXmlSchemaForView" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodInstanceStruct: The MethodInstance.

3.1.4.89.2.2 GetXmlSchemaForViewResponse

The **GetXmlSchemaForViewResponse** element specifies the result data for the **GetXmlSchemaForView WSDL operation**.

```
<xs:element name="GetXmlSchemaForViewResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetXmlSchemaForViewResult: A string that contains the resulting **XML schema**. The XML schema MUST conform to [XMLSCHEMA1](#) and [XMLSCHEMA2](#). The **XML namespace** specified by the XML schema is implementation-specific. The XML schema MUST specify the root element that corresponds to the View. The name of the root element MUST be equal to the name of the View. The root element MUST contain exactly one XML element for each of the **fields** in the View. The XML element is declared based on the **TypeDescriptors** that correspond to fields.

3.1.4.89.3 Complex Types

None.

3.1.4.89.4 Simple Types

None.

3.1.4.89.5 Attributes

None.

3.1.4.89.6 Groups

None.

3.1.4.89.7 Attribute Groups

None.

3.1.4.90 HaveRights

The **HaveRights** operation retrieves whether the **security principal** in whose context the protocol client is operating has the specified permission on the specified **MetadataObject** based on the permissions specified by the **ACEs** in the specified **Setting** associated with the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **HaveRights WSDL operation**.

```
<wsdl:operation name="HaveRights" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRights" message="tns:BusinessDataCatalogSharedService_HaveRights_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns:BusinessDataCatalogSharedService_HaveRights_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_HaveRights_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_HaveRights_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.90.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_HaveRights_InputMessage	The request WSDL message for the HaveRights WSDL operation .

Message	Description
BusinessDataCatalogSharedService_HaveRights_OutputMessage	The response WSDL message for the HaveRights WSDL operation.

3.1.4.90.1.1 BusinessDataCatalogSharedService_HaveRights_InputMessage

The request **WSDL message** for the **HaveRights** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights
```

The **SOAP body** contains the **HaveRights** element.

3.1.4.90.1.2 BusinessDataCatalogSharedService_HaveRights_OutputMessage

The response **WSDL message** for the **HaveRights** **WSDL operation**.

The **SOAP body** contains the **HaveRightsResponse** element.

3.1.4.90.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
HaveRights	The input data for the HaveRights WSDL operation .
HaveRightsResponse	The result data for the HaveRights WSDL operation .

3.1.4.90.2.1 HaveRights

The **HaveRights** element specifies the input data for the **HaveRights** **WSDL operation**.

```
<xs:element name="HaveRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="q2:BdcRights"/>
      <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

rights: The permission to check.

fallback: When the value of this element is "true", the protocol server MUST use the ACEs in the default **Setting** for the specified **MetadataObject** if there are no ACEs exist in the specified Setting for the specified **MetadataObject**.

settingId: The Setting that contains the ACEs. If the value of this element is NULL, the protocol server MUST use the ACEs contained by the default Setting.

3.1.4.90.2.2 HaveRightsResponse

The **HaveRightsResponse** element specifies the result data for the **HaveRights WSDL operation**.

```
<xs:element name="HaveRightsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

HaveRightsResult: If the **security principal** in whose context the protocol client is operating has the specified permissions, this value MUST be set to "true". Otherwise, this value MUST be set to "false".

3.1.4.90.3 Complex Types

None.

3.1.4.90.4 Simple Types

The following table summarizes the **XML schema** simple type definitions that are specific to this operation.

Simple type	Description
BdcRights	Specifies the permission given a security principal on a MetadataObject .

3.1.4.90.4.1 BdcRights

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcRights** simple type represents a permission a given **security principal** can have on a **MetadataObject**.

```
<xs:simpleType name="BdcRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Execute"/>
        <xs:enumeration value="Edit"/>
        <xs:enumeration value="SetPermissions"/>
        <xs:enumeration value="UseInBusinessDataInLists"/>
        <xs:enumeration value="SelectableInClients"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

```
</xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **BdcRights** simple type.

Value	Meaning
None	No permissions.
Execute	The security principal has the permission to invoke a MethodInstance .
Edit	The security principal has permission to change the attributes of a MetadataObject or its relationship to other MetadataObjects .
SetPermissions	The security principal has permission to change the set of permissions for a MetadataObject .
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.
SelectableInClients	The security principal has permission to select the MetadataObject this permission refers to in an implementation-specific user interface from a list of available MetadataObjects . If the security principal does not have this permission, the MetadataObject SHOULD NOT be presented in such a list.

3.1.4.90.5 Attributes

None.

3.1.4.90.6 Groups

None.

3.1.4.90.7 Attribute Groups

None.

3.1.4.91 ImportPackage

The **ImportPackage** operation creates the following objects in the **metadata store**:

- MetadataObjects** contained by the specified **MetadataModel**, along with their **Properties**, **localized names**, and **ACEs**, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as an **XML** element that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains a **LobSystem** that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all **LobSystemInstances** contained by that **LobSystem**, along with **Properties**, **localized names**, and **ACEs** of the ignored **MetadataObjects**. If the **MetadataModel** contains an **Entity** that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects**, and along with the **Properties**, **localized names**, and **ACEs** of the ignored **MetadataObjects**.
- Localized names, **Properties**, and **ACEs** corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents**

element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.2.3.28.

The following is the **WSDL** port type specification of the **ImportPackage WSDL operation**.

```
<wsdl:operation name="ImportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackage_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ImportPackage_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises a **PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error under any of the following conditions:

- The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.1.3.34.
- The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.2.3.28.
- The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified **partition**.
- The **updateModel** element is set to "true", the "Model" value is specified for the **packageContents** element, and the **Model** contained by the **MetadataModel** does not exist in the specified partition.
- The **security principal** in whose context the protocol client is operating is not authorized to create or modify the specified **Model**.
- The security principal in whose context the protocol client is operating is not authorized to create or modify the specified **MetadataCatalog**.
- The "Model" value is not specified for the **packageContents** element, and at least one of the **MetadataObjects** contained by the **MetadataModel** does not exist in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the **LobSystems** contained by the **MetadataModel** has the same name as a **LobSystem** in the metadata store. However, the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store. However, the names of the **LobSystems** that contain these **Entities** are different.
- The "InlineProxies" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** with an associated **Business Logic Module**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type **TimeStampFilter**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnPropertyDescriptor** that contains other **TypeDescriptors**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnPropertyDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:

- AccessChecker
 - AssociationNavigator
 - Associator
 - BinarySecurityDescriptorAccessor
 - BulkAssociatedIdEnumerator
 - BulkAssociationNavigator
 - BulkIdEnumerator
 - BulkSpecificFinder
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Deleter
 - Disassociator
 - SpecificFinder
 - Updater
 - StreamAccessor
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
 - ChangedIdEnumerator
 - DeletedIdEnumerator

3.1.4.91.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ImportPackage_InputMessage	The request WSDL message for the ImportPackage WSDL operation .
BusinessDataCatalogSharedService_ImportPackage_OutputMessage	The response WSDL message for the ImportPackage WSDL operation .

3.1.4.91.1.1 BusinessDataCatalogSharedService_ImportPackage_InputMessage

The request **WSDL message** for the **ImportPackage WSDL operation**.

The **SOAP action** value is:

The **SOAP body** contains the **ImportPackage** element.

3.1.4.91.1.2 BusinessDataCatalogSharedService_ImportPackage_OutputMessage

The response **WSDL message** for the **ImportPackage WSDL operation**.

The **SOAP body** contains the **ImportPackageResponse** element.

3.1.4.91.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ImportPackage	The input data for the ImportPackage WSDL operation .
ImportPackageResponse	The result data for the ImportPackage WSDL operation .

3.1.4.91.2.1 ImportPackage

The **ImportPackage** element specifies the input data for the **ImportPackage WSDL operation**.

```
<xs:element name="ImportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the **metadata store**. The protocol server MUST set all **Entities** contained by the specified **MetadataModel** to active. If any of the **Entities** contain reference errors as specified in section [3.1.4.5.3.2](#), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
- If the "Model" value is not specified, the protocol server MUST NOT create any **MetadataObjects**.
- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the

same name in the specified **Setting** for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.

- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same **LCID** in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

adminStruct: The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**. The **partition** of this **MetadataCatalog** MUST be the partition of the protocol client.

settingId: The **Setting** in which to create the **Properties**, localized names, and ACEs.

callerCultureLcid: Specifies the **LCID** corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

3.1.4.91.2.2 ImportPackageResponse

The **ImportPackageResponse** element specifies the result data for the **ImportPackage WSDL operation**.

```
<xs:element name="ImportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ImportPackageResult: The **Model** from the **metadata store** that corresponds to the specified **MetadataModel**.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.91.3 Complex Types

None.

3.1.4.91.4 Simple Types

None.

3.1.4.91.5 Attributes

None.

3.1.4.91.6 Groups

None.

3.1.4.91.7 Attribute Groups

None.

3.1.4.92 ImportPackageWithProgress

The **ImportPackageWithProgress** operation creates the following objects in the **metadata store**:

- **MetadataObjects** contained by the specified **MetadataModel**, along with their **Properties**, **localized names**, and **ACEs**, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as an **XML** element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains a **LobSystem** that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all **LobSystemInstances** contained by that **LobSystem** along with **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an **Entity** that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects**, and along with the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.

The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the **GetImportProgress** operation with the specified identifier.

The following is the **WSDL** port type specification of the **ImportPackageWithProgress WSDL operation**.

```
<wsdl:operation name="ImportPackageWithProgress"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/ImportPackageWithProgress"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises a **PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error under any of the following conditions:

- The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34.
- The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.
- The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified **partition**.
- The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and another **Model** with the same name already exists in the metadata store.
- The **security principal** in whose context the protocol client is operating is not authorized to create or modify the specified **Model**.
- The security principal in whose context the protocol client is operating is not authorized to create or modify the specified **MetadataCatalog**.
- The **updateModel** element is set to "true", the "Model" value is specified for the **packageContents** element, and the **Model** contained by the **MetadataModel** does not exist in the specified partition.
- The "Model" value is not specified for the **packageContents** element, and at least one of the **MetadataObjects** contained by the **MetadataModel** does not exist in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the **LobSystems** contained by the **MetadataModel** has the same name as a **LobSystem** in the metadata store. However, the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store. However, the names of the **LobSystems** that contain these **Entities** are different.
- The "InlineProxies" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** with an associated **Business Logic Module**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type **TimeStampFilter**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:

- AccessChecker
 - AssociationNavigator
 - Associator
 - BinarySecurityDescriptorAccessor
 - BulkAssociatedIdEnumerator
 - BulkAssociationNavigator
 - BulkIdEnumerator
 - BulkSpecificFinder
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Deleter
 - Disassociator
 - SpecificFinder
 - Updater
 - StreamAccessor
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
 - ChangedIdEnumerator
 - DeletedIdEnumerator

3.1.4.92.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage	The request WSDL message for the ImportPackageWithProgress WSDL operation .
BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage	The response WSDL message for the ImportPackageWithProgress WSDL operation .

3.1.4.92.1.1 BusinessDataCatalogSharedService_ImportPackageWithProgress_Input Message

The request **WSDL message** for the **ImportPackageWithProgress WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress
```

The **SOAP body** contains the **ImportPackageWithProgress** element.

3.1.4.92.1.2 BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage

The response **WSDL message** for the **ImportPackageWithProgress WSDL operation**.

The **SOAP body** contains the **ImportPackageWithProgressResponse** element.

3.1.4.92.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ImportPackageWithProgress	The input data for the ImportPackageWithProgress WSDL operation .
ImportPackageWithProgressResponse	The result data for the ImportPackageWithProgress WSDL operation .

3.1.4.92.2.1 ImportPackageWithProgress

The **ImportPackageWithProgress** element specifies the input data for the **ImportPackageWithProgress WSDL operation**.

```
<xs:element name="ImportPackageWithProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the **metadata store**. The protocol server MUST set all **Entities** contained by the specified **MetadataModel** to active. If any of the **Entities** contain reference errors as specified in section 3.1.4.5.3.2, the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
- If the "Model" value is not specified, the protocol server MUST NOT create any **MetadataObjects**.
- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified **Setting** for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same **LCID** in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

adminStruct: The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**. The **partition** of this **MetadataCatalog** MUST be the partition of the protocol client.

settingId: The **Setting** in which to create the **Properties**, localized names, and ACEs.

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

jobId: Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

3.1.4.92.2 ImportPackageWithProgressResponse

The **ImportPackageWithProgressResponse** element specifies the result data for the **ImportPackageWithProgress WSDL operation**.

```
<xs:element name="ImportPackageWithProgressResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="q5:ModelStruct"/>
    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

ImportPackageWithProgressResult: The **Model** from the **metadata store** that corresponds to the specified **MetadataModel**.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.92.3 Complex Types

None.

3.1.4.92.4 Simple Types

None.

3.1.4.92.5 Attributes

None.

3.1.4.92.6 Groups

None.

3.1.4.92.7 Attribute Groups

None.

3.1.4.93 IsMethodInstantiated

The **IsMethodInstantiated** operation checks whether the specified **Method** contains at least one **MethodInstance**.

The following is the **WSDL** port type specification of the **IsMethodInstantiated WSDL operation**.

```

<wsdl:operation name="IsMethodInstantiated" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiated"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService IsMethodInstantiated ArgumentNullExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService IsMethodInstantiated ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage** response message, unless any faults occur.

3.1.4.93.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage	The request WSDL message for the IsMethodInstantiated WSDL operation .
BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage	The response WSDL message for the IsMethodInstantiated WSDL operation .

3.1.4.93.1.1 BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage

The request **WSDL message** for the **IsMethodInstantiated WSDL operation**.

The **SOAP action** value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsM
ethodInstantiated

```

The **SOAP body** contains the **IsMethodInstantiated** element.

3.1.4.93.1.2 BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage

The response **WSDL message** for the **IsMethodInstantiated WSDL operation**.

The **SOAP body** contains the **IsMethodInstantiatedResponse** element.

3.1.4.93.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
IsMethodInstantiated	The input data for the IsMethodInstantiated WSDL operation .
IsMethodInstantiatedResponse	The result data for the IsMethodInstantiated WSDL operation .

3.1.4.93.2.1 IsMethodInstantiated

The **IsMethodInstantiated** element specifies the input data for the **IsMethodInstantiated WSDL operation**.

```
<xs:element name="IsMethodInstantiated" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The **MetadataObjectId** for the **Method**.

partitionId: The **partition** of the protocol client.

3.1.4.93.2.2 IsMethodInstantiatedResponse

The **IsMethodInstantiatedResponse** element specifies the result data for the **IsMethodInstantiated WSDL operation**.

```
<xs:element name="IsMethodInstantiatedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsMethodInstantiatedResult: This element MUST be set to "true", if the **Method** contains at least one **MethodInstance**. Otherwise, it MUST be set to "false".

3.1.4.93.3 Complex Types

None.

3.1.4.93.4 Simple Types

None.

3.1.4.93.5 Attributes

None.

3.1.4.93.6 Groups

None.

3.1.4.93.7 Attribute Groups

None.

3.1.4.94 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified **Parameter** contains any **TypeDescriptor** that is the **ReturnTypeDescriptor** of any **MethodInstance** contained by the **Method** containing the **Parameter**.

The following is the **WSDL** port type specification of the **IsParameterReferencedByMethodInstance WSDL operation**.

```
<wsdl:operation name="IsParameterReferencedByMethodInstance"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentN
ullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentO
utOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified Parameter is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Parameter does not exist.

3.1.4.94.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage	The request WSDL message for the IsParameterReferencedByMethodInstance WSDL operation .
BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage	The response WSDL message for the IsParameterReferencedByMethodInstance WSDL operation .

3.1.4.94.1.1 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage

The request **WSDL message** for the **IsParameterReferencedByMethodInstance WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance
```

The **SOAP body** contains the **IsParameterReferencedByMethodInstance** element.

3.1.4.94.1.2 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage

The response **WSDL message** for the **IsParameterReferencedByMethodInstance WSDL operation**.

The **SOAP body** contains the **IsParameterReferencedByMethodInstanceResponse** element.

3.1.4.94.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
IsParameterReferencedByMethodInstance	The input data for the IsParameterReferencedByMethodInstance WSDL operation .
IsParameterReferencedByMethodInstanceResponse	The result data for the IsParameterReferencedByMethodInstance WSDL operation .

3.1.4.94.2.1 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** element specifies the input data for the **IsParameterReferencedByMethodInstance WSDL operation**.

```
<xs:element name="IsParameterReferencedByMethodInstance"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The **MetadataObjectId** for the **Parameter**.

partitionId: The **partition** of the protocol client.

3.1.4.94.2.2 IsParameterReferencedByMethodInstanceResponse

The **IsParameterReferencedByMethodInstanceResponse** element specifies the result data for the **IsParameterReferencedByMethodInstance** **WSDL operation**.

```
<xs:element name="IsParameterReferencedByMethodInstanceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
        type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsParameterReferencedByMethodInstanceResult: If this element is set to "true", the specified **Parameter** contains a **ReturnPropertyDescriptor**. If set to "false", the specified **Parameter** SHOULD NOT contain a **ReturnPropertyDescriptor** [<104>](#).

3.1.4.94.3 Complex Types

None.

3.1.4.94.4 Simple Types

None.

3.1.4.94.5 Attributes

None.

3.1.4.94.6 Groups

None.

3.1.4.94.7 Attribute Groups

None.

3.1.4.95 MetadataObjectCreate

The **MetadataObjectCreate** operation creates a **MetadataObject** in the **metadata store**. If the specified **MetadataObject** is a **MetadataCatalog** and another **MetadataCatalog** with the same **partition** as the specified **MetadataCatalog** already exists, this operation MUST NOT change the state of the data in the metadata store [<105>](#).

The following is the **WSDL** port type specification of the **MetadataObjectCreate** **WSDL operation**.

```
<wsdl:operation name="MetadataObjectCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate"
    message="tns:BusinessDataCatalogSharedService MetadataObjectCreate InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse"
  </wsdl:output>
</wsdl:operation>
```

```

message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **MetadataExceptionState** error if the **MetadataObject** specified in the **rawValues** element is an **Association** with the **methodInstanceType** not set to the following values:

- AssociationNavigator
- Associator
- Disassociator
- BulkAssociationNavigator
- BulkAssociatedIdEnumerator

This operation raises the **ArgumentNullException** error, from namespace <http://schemas.datacontract.org/2004/07/System>, under the following conditions:

- The **parentStruct** element is not set to the structure that is expected by this operation.

- The **parentStruct** element is set to null.
- The **rawValues** element specifies an **association** and any one of the elements **destinationEntityName**, **destinationEntityNamespace**, **sourceEntityNames** and **sourceEntityNamespaces** in the **Association** is null or not present in the request.

This operation raises an **AccessDeniedExceptionState**error, from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>, under the following conditions:

- The **rawValues** element specifies a **LobSystem**, and the **security principal** in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog** specified by the **parentStruct** element.
- The **rawValues** element specifies a **LobSystemInstance**, and the security principal in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
- The **rawValues** element specifies an **Identifier**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies an **Action**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies an **ActionParameter**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element.
- The **rawValues** element specifies a **Method**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies an **AssociationGroup**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **rawValues** element specifies a **MethodInstance**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **rawValues** element specifies a **Parameter**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **rawValues** element specifies a **FilterDescriptor**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **rawValues** element specifies an **Association**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Method** specified by the **parentStruct** element.

This operation raises the **ArgumentException**error, from namespace <http://schemas.datacontract.org/2004/07/System>, under the following conditions:

- The **rawValues** element specifies a **MetadataObject** with invalid attributes.

- The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnTypeDescriptor** that is not contained by any parameters that are contained by the method specified by the **parentStruct** element.
- The **rawValues** element specifies an **Identifier** with the **typeName** element set to null or empty.
- The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnTypeDescriptor** that is contained by a parameter with the **Direction** attribute set to "In".
- The **rawValues** element specifies a **MethodInstance** that does not specify a **ReturnTypeDescriptor**, and the type of the specified **MethodInstance** is one of the following values:
 - AccessChecker
 - AssociationNavigator
 - BulkAssociatedIdEnumerator
 - BulkAssociationNavigator
 - BulkIdEnumerator
 - BulkSpecificFinder
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Finder
 - IdEnumerator
 - Scalar
 - SpecificFinder
 - StreamAccessor
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** without the **IsCollection** value set in the **flags** element, and the type of the specified **MethodInstance** is one of the following values:
 - BulkAssociationNavigator
 - BulkIdEnumerator
 - BulkSpecificFinder
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Finder
 - IdEnumerator
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with the **IsCollection** value set in the **flags** element, and the type of the specified **MethodInstance** is one of the following values:
 - AccessChecker

- Creator
- Scalar
- SpecificFinder
- StreamAccessor
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnPropertyDescriptor** with the **None** value set in the **flags** element, and the type of the specified **MethodInstance** is "StreamAccessor".
- The **rawValues** element specifies a **MethodInstance** that has a **ReturnPropertyDescriptor** that contains other **TypeDescriptors**, and the specified **MethodInstance** is a **StreamAccessor**.
- The **rawValues** element specifies a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnPropertyDescriptor** of the **MethodInstance** also contains other **TypeDescriptors**, and the LobSystem that contains the **DataClass** that contains the **Method** that contains the **MethodInstance** does not allow this configuration, and the specified **MethodInstance** is a **StreamAccessor**.
- The **rawValues** element specifies a **MethodInstance**, the **Method** specified by the **parentStruct** element does not contain a **TimeStampFilter**, and the type of the specified **MethodInstance** is one of the following values:
 - ChangedIdEnumerator
 - DeletedIdEnumerator
- The **rawValues** element specifies a **MethodInstance** that requires an input, but the **Method** specified by **parentStruct** does not contain any parameters with the **Direction** attribute set to "In" or "InOut".
- The **rawValues** element specifies a **FilterDescriptor** of type **TimeStampFilter**, but the **Method** specified by the **parentStruct** already contains a **TimeStampFilter**.
- The **rawValues** element specifies a parameter with the **Direction** attribute set to "Return", but the **Method** specified by **parentStruct** already contains a parameter with the **Direction** attribute set to "Return".
- The **rawValues** element specifies an **Association** and the same **Entity** is specified as a source of the **Association** more than once.
- The **rawValues** element specifies an **Action** with the **position** element set to 0.

This operation raises the **BdcExceptionState** error under the following conditions:

- The **MetadataObject** specified in the **rawValues** element is an **Entity** or a **TypeDescriptor**.
- The **MetadataObject** specified in the **rawValues** element is an **Association**, but the **parentStruct** is not a **Method**.
- The **parentStruct** element is a **MetadataCatalog** that contains an **AccessControlEntry**, and the **principalName** of the **AccessControlEntry** specifies a nonexistent user name or domain group.

This operation raises the **DuplicateMetadataObjectExceptionState** error, from namespace Microsoft.SharePoint.BusinessData, under the following conditions:

- The **rawValues** element specifies an **LobSystem**, but an **LobSystem** with the same name already exists in the metadata store.

- The **rawValues** element specifies a **MethodInstance**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already contains a **MethodInstance** with the same name as the specified **MethodInstance**.
- The **rawValues** element specifies an **Association**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already contains a **Method** that contains an **Association** with the same name as the specified **Association**.
- The **MetadataObject** specified by the **parentStruct** element already contains a **MetadataObject** that has same name and type as the **MetadataObject** specified by the **rawValues** element.

This operation raises the **ExceededMetadataObjectLimitExceptionState** error, from namespace **Microsoft.SharePoint.BusinessData**) under the following conditions:

- The **MetadataObject** specified by the **parentStruct** element already contains the implementation-specific maximum number of **MetadataObjects** that have the same type as the **MetadataObject** specified by the **rawValues** element.
- The **rawValues** element specifies a **MethodInstance** of type **IdEnumerator**, **AccessChecker**, **Deleter**, **ChangedIdEnumerator**, **DeletedIdEnumerator**, or **BulkIdEnumerator**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already has a **MethodInstance** of the same type.

This operation raises the **MetadataObjectNotFoundExceptionState** error, from namespace **Microsoft.SharePoint.BusinessData**, under the following conditions:

- The **MetadataObject** specified by the **parentStruct** element does not exist in the metadata store.
- The **rawValues** element specifies a **MetadataObject** other than **Association** that references another **MetadataObject** that does not exist in the metadata store.
- The **rawValues** element specifies an **Association** for which the specified **sourceEntityNames** and **sourceEntityNamespaces** each contain only one empty string element.

If the **rawValues** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions in addition to creating the **MetadataObject** in the metadata store.

MetadataObject	Action
Identifier	Set the OrdinalNumber attribute of the created Identifier to 1 plus the maximum value of the OrdinalNumber attributes of all the Identifiers contained by the Entity specified by the parentStruct element.
Parameter	Set the OrdinalNumber attribute of the created Parameter to 1 plus the maximum value of OrdinalNumber attributes of all the Parameters contained by the Method specified by the parentStruct element.
MethodInstance	Set the IsDefault attributes of all other MethodInstances of type equal to the type of the created MethodInstance in the DataClass that contains the Method specified by the parentStruct element to "false" if the IsDefault attribute is set to "true" for the created MethodInstance . If the IsDefault attribute is set to "false" for the created MethodInstance and the DataClass that contains the

MetadataObject	Action
	Method specified by the parentStruct element does not contain any other MethodInstance that has the type equal to the type of the created MethodInstance , the protocol server MUST set the IsDefault attribute of the created MethodInstance to "true".
MethodInstance	Copy the ACEs from the Entity that contains the Method specified by the parentStruct to the created MethodInstance .
LobSystem	Copy the ACEs from the MetadataCatalog specified by the parentStruct to the created LobSystem .
Model	Copy the ACEs from the MetadataCatalog specified by the parentStruct to the created Model .
Method	Copy the ACEs from the Entity specified by the parentStruct to the created Method .

3.1.4.95.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage	The request WSDL message for the MetadataObjectCreate WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage	The response WSDL message for the MetadataObjectCreate WSDL operation .

3.1.4.95.1.1 BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage

The request **WSDL message** for the **MetadataObjectCreate WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate
```

The **SOAP body** contains the **MetadataObjectCreate** element.

3.1.4.95.1.2 BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage

The response **WSDL message** for the **MetadataObjectCreate WSDL operation**.

The **SOAP body** contains the **MetadataObjectCreateResponse** element.

3.1.4.95.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectCreate	The input data for the MetadataObjectCreate WSDL operation .
MetadataObjectCreateResponse	The result data for the MetadataObjectCreate WSDL operation .

3.1.4.95.2.1 MetadataObjectCreate

The **MetadataObjectCreate** element specifies the input data for the **MetadataObjectCreate WSDL operation**.

```
<xs:element name="MetadataObjectCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues"
nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: Specifies the **MetadataObject** to create. The **partition** of this **MetadataObject** MUST be the partition of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

parentStruct: Specifies the **MetadataObject** in which to create the new **MetadataObject**. The partition of this **MetadataObject** MUST be the partition of the protocol client.

3.1.4.95.2.2 MetadataObjectCreateResponse

The **MetadataObjectCreateResponse** element specifies the result data for the **MetadataObjectCreate WSDL operation**.

```
<xs:element name="MetadataObjectCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MetadataObjectCreateResult: The created **MetadataObject**. If the **MetadataObject** specified in the request is a **MetadataCatalog** and a **MetadataCatalog** with the same **partition** as the specified **MetadataCatalog** already exists in the **metadata store**, this operation MUST return the existing **MetadataCatalog** [<106>](#).

3.1.4.95.3 Complex Types

None.

3.1.4.95.4 Simple Types

None.

3.1.4.95.5 Attributes

None.

3.1.4.95.6 Groups

None.

3.1.4.95.7 Attribute Groups

None.

3.1.4.96 MetadataObjectMergeXml

The **MetadataObjectMergeXml** operation merges the **Properties**, **localized names**, and **ACEs** contained by the specified **MetadataModel** into the existing **MetadataObjects** in the **metadata store**. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- An **Action** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.3.
- An **ActionParameter** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.4.
- An **Association** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.7.
- An **AssociationGroup** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.8.
- An **Entity** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.11.
- A **FilterDescriptor** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.12.
- An **Identifier** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.14.
- A **LobSystem** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.17.
- A **LobSystemInstance** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.18.
- A **Method** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.24.
- A **MethodInstance** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.25.
- A **Model** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28.
- A **Parameter** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.29.

The following is the **WSDL** port type specification of the **MetadataObjectMergeXml WSDL operation**.

```
<wsdl:operation name="MetadataObjectMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeException
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)** under the following conditions:

- The "Properties" value is specified in the **packageContents** element, the specified **MetadataModel** contains properties for a **MetadataObject**, and the **security principal** in whose context the protocol client is operating is not authorized to modify that **MetadataObject**.

- The "LocalizedNames" value is specified in the **packageContents** element, the specified **MetadataModel** contains localized names for a **MetadataObject**, and the security principal in whose context the protocol client is operating is not authorized to modify that **MetadataObject**.
- The "Permissions" value is specified in the **packageContents** element, the specified **MetadataModel** contains ACEs for a **MetadataObject**, and the security principal in whose context the protocol client is operating is not authorized to set permissions for that **MetadataObject**.

This operation raises the **BdcExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error under the following conditions:

- The **mergedStruct** element specifies a **TypeDescriptor**.
- The specified **MetadataModel** does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.

This operation raises the **ExceededMetadataObjectLimitExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of **Properties** and the **packageContents** element has "Properties" as its value.

This operation raises the **InvalidOperationException (from namespace <http://schemas.datacontract.org/2004/07/System>)** error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of localized names, and the **packageContents** element has "LocalizedNames" as its value.
- The specified **MetadataModel** contains one or more **MetadataObjects** that does not contain an ACE that specifies "SetPermissions" permission, the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
 - Association
 - Entity
 - LobSystem
 - Method
 - MethodInstance
 - Model

This operation raises the **PackageFormatExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error under the following conditions:

- One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store.
- The **packageContents** element is set to "Model".

3.1.4.96.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage	The request WSDL message for the MetadataObjectMergeXml WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage	The response WSDL message for the MetadataObjectMergeXml WSDL operation .

3.1.4.96.1.1 BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage

The request **WSDL message** for the **MetadataObjectMergeXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml
```

The **SOAP body** contains the **MetadataObjectMergeXml** element.

3.1.4.96.1.2 BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage

The response **WSDL message** for the **MetadataObjectMergeXml WSDL operation**.

The **SOAP body** contains the **MetadataObjectMergeXmlResponse** element.

3.1.4.96.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectMergeXml	The input data for the MetadataObjectMergeXml WSDL operation .
MetadataObjectMergeXmlResponse	The result data for the MetadataObjectMergeXml WSDL operation .

3.1.4.96.2.1 MetadataObjectMergeXml

The **MetadataObjectMergeXml** element specifies the input data for the **MetadataObjectMergeXml WSDL operation**.

```
<xs:element name="MetadataObjectMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packgeContents" type="q5:PackageContents"/>
    
```

```

    <xs:element xmlns:g5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="g5:MetadataObjectStruct"/>
    <xs:element xmlns:g5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="g5:MetadataObjectStruct"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

xml: The **XML** representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packgeContents: Specifies the parts of the **MetadataModel** to be merged into the existing **MetadataObjects**. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST merge the **Properties** for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a **Property** that has the same name as the **Property** specified by the **MetadataModel** already exists for the specified **MetadataObject**, the protocol server MUST remove the existing **Property** and create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **MetadataObject**, the protocol server MUST create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST merge the **localized names** for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a localized name that has the same **LCID** and **Setting** as the localized name specified by the **MetadataModel** already exists for the specified **MetadataObject**, the protocol server MUST remove the existing localized name and create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified **LCID** and **Setting** does not exist for the specified **MetadataObject**, the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified and the **MetadataModel** specifies ACEs for a **MetadataObject** for the specified **Setting**, the protocol server MUST remove any existing ACEs for the specified **MetadataObject** for the specified **Setting**, and create new ACEs that correspond to the ACEs specified in the **MetadataModel** for the specified **Setting**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

parentStruct: The parent **MetadataObject** of the **MetadataObject** specified by the **MetadataModel**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

mergedStruct: The **MetadataObject** into which to merge the **Properties**, localized names, and ACEs. The attributes of the specified **MetadataObject** MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
Action	ActionStruct (from namespace Microsoft.SharePoint.BusinessData)

Root element name	Complex type
ActionParameter	ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)
Association	AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)
AssociationGroup	AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)
Entity	EntityStruct (from namespace Microsoft.SharePoint.BusinessData)
FilterDescriptor	FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)
Identifier	IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystem	LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystemInstance	LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Method	MethodStruct (from namespace Microsoft.SharePoint.BusinessData)
MethodInstance	MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Model	ModelStruct (from namespace Microsoft.SharePoint.BusinessData)
Parameter	ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)

settingId: The **Setting** to merge the **Properties**, localized names and ACEs. If this value is NULL, the protocol server MUST use the default **Setting** when performing the operation.

callerCultureLcid: Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.96.2.2 MetadataObjectMergeXmlResponse

The **MetadataObjectMergeXmlResponse** element specifies the result data for the **MetadataObjectMergeXml** **WSDL operation**.

```
<xs:element name="MetadataObjectMergeXmlResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

errors: List of implementation-specific error messages that occurred while performing this operation.

mergedStruct: The **MetadataObject** into which the **Properties**, **localized names**, and ACEs were merged. The **partition** of this MetadataObject MUST be the partition of the protocol client.

3.1.4.96.3 Complex Types

None.

3.1.4.96.4 Simple Types

None.

3.1.4.96.5 Attributes

None.

3.1.4.96.6 Groups

None.

3.1.4.96.7 Attribute Groups

None.

3.1.4.97 MetadataObjectReadXml

The **MetadataObjectReadXml** operation creates **MetadataObjects** in the **metadata store**, optionally along with their **Properties**, **localized names**, and **ACEs** contained by the specified **MetadataModel**<107>. This operation creates **Properties**, localized names, and ACEs for the default **Setting**. The operation also creates a default localized name for the specified **MetadataModel**, such that the **vlue** element, as specified in section 2.2.4.41, contains the name of the root element of the specified **MetadataModel**. If the same **MetadataObject** exists on the server, the **MetadataObjectReadXml** operation will ignore the **MetadataObject** specified in the XML representing the **MetadataModel** when the **MetadataObject** contains no properties. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- An **Action** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.3.
- An **ActionParameter** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.4.
- An **Association** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.7.
- An **AssociationGroup** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.8.
- An **Entity** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.16.
- An **Identifier** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.19.
- A **FilterDescriptor** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.17.
- A **LobSystem** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23.
- A **LobSystemInstance** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.24.

- A **Method** element, as specified in [MS-BDCMFFS] section 2.1.3.30.
- A **MethodInstance** element, as specified in [MS-BDCMFFS] section 2.1.3.31.
- A **Parameter** element, as specified in [MS-BDCMFFS] section 2.1.3.37.

The following is the **WSDL** port type specification of the **MetadataObjectReadXml WSDL operation**.

```
<wsdl:operation name="MetadataObjectReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **MetadataException**(from namespace Microsoft.BusinessData.SharePoint) under the following conditions:

- The specified **MetadataModel** contains an **Association**, and the Method for which this **Association** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of the this **Association** is one of the following:
- AssociationNavigator
- Associator
- Disassociator

This operation raises the **AccessDeniedExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) under the following conditions:

- The **xml** element specifies a **LobSystem**, and the **security principal** in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog** specified by the **parentStruct** element.
- The **xml** element specifies a **LobSystemInstance**, and the security principal in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
- The **xml** element specifies an **Entity**, and the security principal in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
- The **xml** element specifies an **Identifier**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies an **Action**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies an **ActionParameter**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element.
- The **xml** element specifies a **Method**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies an **AssociationGroup**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
- The **xml** element specifies a **MethodInstance**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **xml** element specifies a **Parameter**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
- The **xml** element specifies a **FilterDescriptor**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.

- The **xml** element specifies an **Association**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.

This operation raises the **BdcExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error if the specified **MetadataModel** represents a **Model** or a **TypeDescriptor**.

This operation raises the **DuplicateMetadataObjectExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the specified **MetadataModel** represents a **LobSystem**, but a **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the **ExceededMetadataObjectLimitExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names<108> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of **Methods** allowed per **Entity**.

This operation raises the **InvalidOperationException (from namespace <http://schemas.datacontract.org/2004/07/System>)** error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE that specifies **anonymous user** to have permissions other than "Execute", the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
 - Association
 - Entity
 - LobSystem
 - Method
 - MethodInstance
- The specified **MetadataModel** contains one or more **MetadataObjects** that do not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
 - Association
 - Entity
 - LobSystem
 - Method
 - MethodInstance

This operation raises the **MetadataObjectNotFoundExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the creation of the **MetadataObjects** in the specified **MetadataModel** cannot be finished because the parent **MetadataObjects** of the **MetadataObject** to be created cannot be found in the metadata store.

This operation raises the **PackageFormatExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error under the following conditions:

- The specified **MetadataModel** does not conform to the format specified in [MS-BDCMFFS].

- One or more **Entities** in the specified **MetadataModel** already exist in a different **LobSystem**.
- The protocol server cannot find the **Parameter** that contains the **ReturnTypeDescriptor** associated with one of the **MethodInstances** contained by the specified **MetadataModel**.
- One or more of the **TypeDescriptors** specified in the **MetadataModel** have **DefaultValues**, but the **Method** that contains the **Parameter** that contains these **TypeDescriptors** does not contain the **MethodInstance** specified by **DefaultValues**.
- The "Model" value is not specified in the **packageContents** element.
- The "InlineProxies" value is specified in the **packageContents**, and the specified **MetadataModel** contains a **LobSystem** with an associated **Business Logic Module**.
- The specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type **TimeStampFilter**.
- The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return".
- The specified **MetadataModel** contains an **Association** which references the same **Entity** more than once as a source of the **Association**.
- The specified **MetadataModel** contains a **StreamAccessor** that specifies a **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
- The specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has its type specified as "Database".
- The specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
 - AccessChecker
 - AssociationNavigator
 - Associator
 - BinarySecurityDescriptorAccessor
 - BulkAssociatedIdEnumerator
 - BulkAssociationNavigator
 - BulkIdEnumerator
 - BulkSpecificFinder
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Deleter
 - Disassociator
 - SpecificFinder
 - Updater

- StreamAccessor
- The specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter**, and the type of this **MethodInstance** is one of the following values:
 - ChangedIdEnumerator
 - DeletedIdEnumerator
- The **MetadataObject** specified in the input XML contains the same properties as the existing **MetadataObject** on server.

3.1.4.97.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage	The request WSDL message for the MetadataObjectReadXml WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage	The response WSDL message for the MetadataObjectReadXml WSDL operation .

3.1.4.97.1.1 BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage

The request **WSDL message** for the **MetadataObjectReadXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml
```

The **SOAP body** contains the **MetadataObjectReadXml** element.

3.1.4.97.1.2 BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage

The response **WSDL message** for the **MetadataObjectReadXml WSDL operation**.

The **SOAP body** contains the **MetadataObjectReadXmlResponse** element.

3.1.4.97.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectReadXml	The input data for the MetadataObjectReadXml WSDL operation .
MetadataObjectReadXmlResponse	The result data for the MetadataObjectReadXml WSDL operation.

3.1.4.97.2.1 MetadataObjectReadXml

The **MetadataObjectReadXml** element specifies the input data for the **MetadataObjectReadXml** **WSDL operation**.

```
<xs:element name="MetadataObjectReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

parentStruct: Specifies the **MetadataObject** in which to create the new **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

readStruct: The **MetadataObject** that corresponds to the root element of the specified **MetadataModel**. The attributes of the specified **MetadataObject** MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified **XML** in the following table.

Root element name	Complex type
Action	ActionStruct (from namespace Microsoft.SharePoint.BusinessData)
ActionParameter	ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)
Association	AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)
AssociationGroup	AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)
Entity	EntityStruct (from namespace Microsoft.SharePoint.BusinessData)
FilterDescriptor	FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)
Identifier	IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystem	LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystemInstance	LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Method	MethodStruct (from namespace Microsoft.SharePoint.BusinessData)
MethodInstance	MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Parameter	ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)

callerCultureLcid: Specifies the **LCID** corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.97.2.2 MetadataObjectReadXmlResponse

The **MetadataObjectReadXmlResponse** element specifies the result data for the **MetadataObjectReadXml** **WSDL operation**.

```
<xs:element name="MetadataObjectReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: List of implementation-specific error messages that occurred while performing this operation.

readStruct: The **MetadataObject** that specifies the created **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

3.1.4.97.3 Complex Types

None.

3.1.4.97.4 Simple Types

None.

3.1.4.97.5 Attributes

None.

3.1.4.97.6 Groups

None.

3.1.4.97.7 Attribute Groups

None.

3.1.4.98 MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an **XML** representation of the following objects from the **metadata store**:

- **MetadataObjects** contained by the **MetadataModel** along with their **Properties**, **localized names** and **ACEs**, if "Model" value is specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.

The **MetadataModel** used for this operation MUST contain the specified **MetadataObject**, and other **MetadataObjects** that are contained by the **MetadataModel**; it MUST NOT contain any other **MetadataObjects**.

If the **CameThroughRemoteAdminService** header specified in section [3.1](#) is present in the SOAP request, and if the specified **MetadataModel** contains **LabSystems** that the **security principal** in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LabSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

The following is the **WSDL** port type specification of the **MetadataObjectWriteXml WSDL operation**.

```
<wsdl:operation name="MetadataObjectWriteXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)** error under the following conditions:

- The security principal in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **MetadataObject** is a **LobSystem** or a **LobSystemInstance**, and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request.

- The security principal in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **Permissions** flag is set in **packageContents**, and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request.

This operation raises the **ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)** error if the **packageContents** element specifies an "InlineProxies" value but does not specify the "Model" value.

3.1.4.98.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage	The request WSDL message for the MetadataObjectWriteXml WSDL operation .
BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage	The response WSDL message for the MetadataObjectWriteXml WSDL operation .

3.1.4.98.1.1 BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage

The request **WSDL message** for the **MetadataObjectWriteXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml
```

The **SOAP body** contains the **MetadataObjectWriteXml** element.

3.1.4.98.1.2 BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage

The response **WSDL message** for the **MetadataObjectWriteXml WSDL operation**.

The **SOAP body** contains the **MetadataObjectWriteXmlResponse** element.

3.1.4.98.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
MetadataObjectWriteXml	The input data for the MetadataObjectWriteXml WSDL operation .
MetadataObjectWriteXmlResponse	The result data for the MetadataObjectWriteXml WSDL operation .

3.1.4.98.2.1 MetadataObjectWriteXml

The **MetadataObjectWriteXml** element specifies the input data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** to be retrieved. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

packageContents: Specifies the kind of data to retrieve for the specified **MetadataObject**. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified, the protocol server MUST also retrieve the **Properties** from the default **Setting** that do not have the same name as the **Properties** in the specified **Setting**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST retrieve the **localized names** for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same **LCID** as the localized names in the specified **Setting**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject**, and the "Model" value is also specified, the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.
- If the "InlineProxies" value is not specified, the protocol server MUST ignore **Business Logic Modules** in the specified **MetadataModel**.

settingId: The **Setting** for which **Properties**, localized names, and ACEs are to be retrieved. If **Properties**, localized names, and ACEs are not retrieved, the protocol server MUST ignore the value of this element.

3.1.4.98.2.2 MetadataObjectWriteXmlResponse

The **MetadataObjectWriteXmlResponse** element specifies the result data for the **MetadataObjectWriteXml** WSDL operation.

```

<xs:element name="MetadataObjectWriteXmlResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

MetadataObjectWriteXmlResult: The **XML** that represents the **MetadataObject** represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [\[XML\]](#). The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table.

Complex type	Root element
ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4. Otherwise, the ActionParameter element as specified in [MS-BDCMFFS] section 2.2.3.4.
ActionStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Action element is as specified in [MS-BDCMFFS] section 2.1.3.3. Otherwise, the Action element is as specified in [MS-BDCMFFS] section 2.2.3.3.
AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the AssociationGroup element is as specified in [MS-BDCMFFS] section 2.1.3.8. Otherwise, the AssociationGroup element is as specified in [MS-BDCMFFS] section 2.2.3.8.
AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Association element is as specified in [MS-BDCMFFS] section 2.1.3.7. Otherwise, the Association element is as specified in [MS-BDCMFFS] section 2.2.3.7.
EntityStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Entity element is as specified in [MS-BDCMFFS] section 2.1.3.16. Otherwise, the Entity element is as specified in [MS-BDCMFFS] section 2.2.3.11.
FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the FilterDescriptor element is as specified in [MS-BDCMFFS] section 2.1.3.17. Otherwise, the FilterDescriptor element is as specified in [MS-BDCMFFS] section 2.2.3.12.
IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Identifier element is as specified in [MS-BDCMFFS] section 2.1.3.19. Otherwise, the Identifier element is as specified in [MS-BDCMFFS] section 2.2.3.14.
LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the LobSystem element is as specified in [MS-BDCMFFS] section 2.1.3.23. Otherwise, the LobSystem element is as specified in [MS-BDCMFFS] section 2.2.3.17.
LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the LobSystemInstance element is as specified in

Complex type	Root element
	[MS-BDCMFFS] section 2.1.3.24. Otherwise, the LobSystemInstance element is as specified in [MS-BDCMFFS] section 2.2.3.18.
MethodStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the Method element is as specified in [MS-BDCMFFS] section 2.1.3.30. Otherwise, the Method element is as specified in [MS-BDCMFFS] section 2.2.3.24.
MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the MethodInstance element is as specified in [MS-BDCMFFS] section 2.1.3.31. Otherwise, the MethodInstance element is as specified in [MS-BDCMFFS] section 2.2.3.25.
ModelStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the Model element is as specified in [MS-BDCMFFS] section 2.1.3.34. Otherwise, the Model element is as specified in [MS-BDCMFFS] section 2.2.3.28.
ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the Parameter element is as specified in [MS-BDCMFFS] section 2.1.3.37. Otherwise, the Parameter element is as specified in [MS-BDCMFFS] section 2.2.3.29.

3.1.4.98.3 Complex Types

None.

3.1.4.98.4 Simple Types

None.

3.1.4.98.5 Attributes

None.

3.1.4.98.6 Groups

None.

3.1.4.98.7 Attribute Groups

None.

3.1.4.99 ModelReadXml

The **ModelReadXml** operation creates the **MetadataObjects** contained by the specified **MetadataModel** in the **metadata store**. The **Properties**, **localized names**, and **ACEs** of the **MetadataObjects** are also created. The **MetadataModel** MUST be specified as **XML** that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains a **LobSystem** that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all **LobSystemInstances** contained by that **LobSystem** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an **Entity** that

has the same name, namespace, and version as an **Entity** in the metadata store and the names of the **LOBSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.

The following is the **WSDL** port type specification of the **ModelReadXml WSDL operation**.

```
<wsdl:operation name="ModelReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ModelReadXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ModelReadXml_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more

than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **AccessDeniedExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error if the **security principal** in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog**. This operation raises the **BdcExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** with invalid attributes.
- The specified **MetadataModel** contains an **Association** element that specifies an **Entity** as a source more than once.
- The specified XML does not conform to the format specified in [MS-BDCMFFS].

This operation raises the **DuplicateMetadataObjectExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error under the following conditions:

- The **updateModel** element is set to "false" and there is already a **Model** with the same name as the **Model** contained by the **MetadataModel** contained by the specified **MetadataCatalog**.
- The specified **MetadataModel** represents a **LobSystem**, but a **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the **ExceededMetadataObjectLimitExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names <109> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of Methods allowed per Entity.

This operation raises the **InvalidOperationException (from namespace <http://schemas.datacontract.org/2004/07/System>)** error under the following conditions:

- The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE that specifies the **anonymous user** to have permissions other than "Execute", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:
 - Association
 - Entity
 - LobSystem
 - Method
 - MethodInstance
- The specified **MetadataModel** contains one or more **MetadataObjects** that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:
 - Association
 - Entity
 - LobSystem

- Method
- MethodInstance

This operation raises the **MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error if the **updateModel** element is set to "true" and the specified **MetadataCatalog** does not contain the Model contained by the **MetadataModel**.

This operation raises the **PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error under the following conditions:

- One of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store, but the names of the LobSystems that contain these **Entities** are not identical.
- The **MetadataObjectId** of the specified **MetadataCatalog** is set to zero ("0").
- The "Model" value is not specified in the **packageContents** element.
- The "InlineProxies" value is specified in **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** element with an associated Business Logic Module.
- The specified **MetadataModel** contains a **Method** that contains more than one **TimeStampFilter**.
- The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** that contains this **StreamAccessor** has its type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
 - ChangedIdEnumerator
 - DeletedIdEnumerator
- The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut", and the type of this **MethodInstance** is one of the following values:
 - AccessChecker
 - AssociationNavigator
 - Associator
 - BinarySecurityDescriptorAccessor
 - BulkAssociatedIdEnumerator

- BulkAssociationNavigator
- BulkIdEnumerator
- BulkSpecificFinder
- ChangedIdEnumerator
- DeletedIdEnumerator
- Deleter
- Disassociator
- SpecificFinder
- Updater
- StreamAccessor

3.1.4.99.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ModelReadXml_InputMessage	The request WSDL message for the ModelReadXml WSDL operation .
BusinessDataCatalogSharedService_ModelReadXml_OutputMessage	The response WSDL message for the ModelReadXml WSDL operation.

3.1.4.99.1.1 BusinessDataCatalogSharedService_ModelReadXml_InputMessage

The request **WSDL message** for the **ModelReadXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml
```

The **SOAP body** contains the **ModelReadXml** element.

3.1.4.99.1.2 BusinessDataCatalogSharedService_ModelReadXml_OutputMessage

The response **WSDL message** for the **ModelReadXml WSDL operation**.

The **SOAP body** contains the **ModelReadXmlResponse** element.

3.1.4.99.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ModelReadXml	The input data for the ModelReadXml WSDL operation .
ModelReadXmlResponse	The result data for the ModelReadXml WSDL operation .

3.1.4.99.2.1 ModelReadXml

The **ModelReadXml** element specifies the input data for the **ModelReadXml WSDL operation**.

```
<xs:element name="ModelReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the **metadata store** already contains a **Property** with the same name in the specified **Setting** for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same **LCID** in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

applicationRegistryStruct: The **MetadataCatalog** that contains the **Model** contained by the **MetadataModel**. The **partition** of this **MetadataCatalog** MUST be the partition of the protocol client.

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server SHOULD remove all **Entity** references from the **Model**. Then, the protocol server SHOULD create **Entity** references in the **Model** for all **Entities** in the specified **MetadataModel** [<110>](#).

3.1.4.99.2.2 ModelReadXmlResponse

The **ModelReadXmlResponse** element specifies the result data for the **ModelReadXml WSDL operation**.

```
<xs:element name="ModelReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ModelReadXmlResult: The **Model** from the **metadata store** that corresponds to the specified **MetadataModel**. The **partition** of this **Model** MUST be the partition of the protocol client.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.99.3 Complex Types

None.

3.1.4.99.4 Simple Types

None.

3.1.4.99.5 Attributes

None.

3.1.4.99.6 Groups

None.

3.1.4.99.7 Attribute Groups

None.

3.1.4.100 ReadSlicedXml

The **ReadSlicedXml** operation creates the **Model** or **LOBSystem** and its referenced **MetadataObjects**, along with the **Properties**, **localized names**, and **ACEs** of the **MetadataModel** in the **metadata store**. The **MetadataModel** is represented as an implementation-specific string. The

MetadataModel MUST contain a single **Model** or **LobSystem**, along with all contained **MetadataObjects** and their **Properties** in all **Settings**, localized names in all **Settings**, and ACEs in all **Settings**. The protocol client uses this operation to restore a backed-up **Model** or **LobSystem** to a specified **partition**. The **WriteSlicedXml** operation, as specified in section 3.1.4.115, retrieves the **string** to be used as an input for this operation.

The following is the **WSDL** port type specification of the **ReadSlicedXml WSDL operation**.

```
<wsdl:operation name="ReadSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified MetadataCatalog .
PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The "Model" value is not specified in the packageContents element.

3.1.4.100.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage	The request WSDL message for the ReadSlicedXml WSDL operation .
BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage	The response WSDL message for the ReadSlicedXml WSDL operation.

3.1.4.100.1.1 BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage

The request **WSDL message** for the **ReadSlicedXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml
```

The **SOAP body** contains the **ReadSlicedXml** element.

3.1.4.100.1.2 BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage

The response **WSDL message** for the **ReadSlicedXml WSDL operation**.

The **SOAP body** contains the **ReadSlicedXmlResponse** element.

3.1.4.100.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ReadSlicedXml	The input data for the ReadSlicedXml WSDL operation .
ReadSlicedXmlResponse	The result data for the ReadSlicedXml WSDL operation .

3.1.4.100.2.1 ReadSlicedXml

The **ReadSlicedXml** element specifies the input data for the **ReadSlicedXml WSDL operation**.

```
<xs:element name="ReadSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The implementation-specific **string** that represents the **MetadataModel**.

packageContents: The value of this element SHOULD [<111>](#) be set to "All".

parentStruct: The **MetadataCatalog** [<112>](#) to contain the specified **LobSystem** or **Model**. The **partition** of this **MetadataCatalog** MUST be the partition of the protocol client.

readStruct: The value of this element MUST be a **Model** if the **MetadataModel** consists of a **Model**. Otherwise, the value of this element MUST be an **LobSystem**. The attributes of the specified **Model** or **LobSystem** MUST be ignored by the protocol server.

callerCultureLcid: Specifies the **LCID** corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.100.2.2 ReadSlicedXmlResponse

The **ReadSlicedXmlResponse** element specifies the result data for the **ReadSlicedXml WSDL operation**.

```
<xs:element name="ReadSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: Error messages that occurred while performing this operation.

readStruct: The **Model** or **LobSystem** from the **metadata store** that corresponds to the specified **MetadataModel**. The **partition** of this **Model** or **LobSystem** MUST be the partition of the protocol client.

3.1.4.100.3 Complex Types

None.

3.1.4.100.4 Simple Types

None.

3.1.4.100.5 Attributes

None.

3.1.4.100.6 Groups

None.

3.1.4.100.7 Attribute Groups

None.

3.1.4.101 RemoveEntityFromModel

The **RemoveEntityFromModel** operation removes the reference to the specified **Entity** from the specified **Model**.

The following is the **WSDL** port type specification of the **RemoveEntityFromModel WSDL operation**.

```
<wsdl:operation name="RemoveEntityFromModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationException
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the specified Model.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The partition of the specified Model is different from the partition of the specified Entity .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity is not referenced by the specified Model .

3.1.4.101.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage	The request WSDL message for the RemoveEntityFromModel WSDL operation .
BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage	The response WSDL message for the

Message	Description
	RemoveEntityFromModel WSDL operation.

3.1.4.101.1.1 BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage

The request **WSDL message** for the **RemoveEntityFromModel WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel
```

The **SOAP body** contains the **RemoveEntityFromModel** element.

3.1.4.101.1.2 BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage

The response **WSDL message** for the **RemoveEntityFromModel WSDL operation**.

The **SOAP body** contains the **RemoveEntityFromModelResponse** element.

3.1.4.101.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveEntityFromModel	The input data for the RemoveEntityFromModel WSDL operation .
RemoveEntityFromModelResponse	The result data for the RemoveEntityFromModel WSDL operation .

3.1.4.101.2.1 RemoveEntityFromModel

The **RemoveEntityFromModel** element specifies the input data for the **RemoveEntityFromModel WSDL operation**.

```
<xs:element name="RemoveEntityFromModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelStruct: The **Model**. The **partition** of this element MUST be the partition of the protocol client.

entityStruct: The **Entity**. The partition of this element MUST be the partition of the protocol client.

3.1.4.101.2 RemoveEntityFromModelResponse

The **RemoveEntityFromModelResponse** element specifies the result data for the **RemoveEntityFromModel** **WSDL operation**.

```
<xs:element name="RemoveEntityFromModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence/>  
  </xs:complexType>  
</xs:element>
```

3.1.4.101.3 Complex Types

None.

3.1.4.101.4 Simple Types

None.

3.1.4.101.5 Attributes

None.

3.1.4.101.6 Groups

None.

3.1.4.101.7 Attribute Groups

None.

3.1.4.102 RemoveLocalizedName

The **RemoveLocalizedName** operation removes the **localized name** with the specified **LCID** from the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **RemoveLocalizedName** **WSDL operation**.

```
<wsdl:operation name="RemoveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">  
  <wsdl:input>  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName"  
    message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InputMessage"  
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>  
  <wsdl:output>  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse"  
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"  
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>  
  <wsdl:fault>  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"  
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>  
  <wsdl:fault>  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"  
    message="tns:BusinessDataCatalogSharedService RemoveLocalizedName ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>  
  <wsdl:fault>  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```

```

edService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName ArgumentOutOfRangeException
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName BdcExceptionStateFault Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The localized name for the specified LCID does not exist in the specified Setting for the specified MetadataObject .

3.1.4.102.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage	The request WSDL message for the RemoveLocalizedName WSDL operation .
BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage	The response WSDL

Message	Description
	message for the RemoveLocalizedName WSDL operation.

3.1.4.102.1.1 BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage

The request **WSDL message** for the **RemoveLocalizedName** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName
```

The **SOAP body** contains the **RemoveLocalizedName** element.

3.1.4.102.1.2 BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage

The response **WSDL message** for the **RemoveLocalizedName** **WSDL operation**.

The **SOAP body** contains the **RemoveLocalizedNameResponse** element.

3.1.4.102.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveLocalizedName	The input data for the RemoveLocalizedName WSDL operation .
RemoveLocalizedNameResponse	The result data for the RemoveLocalizedName WSDL operation .

3.1.4.102.2.1 RemoveLocalizedName

The **RemoveLocalizedName** element specifies the input data for the **RemoveLocalizedName** **WSDL operation**.

```
<xs:element name="RemoveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this element MUST be the partition of the protocol client.

lcid: The **LCID** of the **localized name** to be removed.

settingId: The **Setting** from which to remove the localized name.

3.1.4.102.2 RemoveLocalizedNameResponse

The **RemoveLocalizedNameResponse** element specifies the result data for the **RemoveLocalizedName WSDL operation**.

```
<xs:element name="RemoveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.102.3 Complex Types

None.

3.1.4.102.4 Simple Types

None.

3.1.4.102.5 Attributes

None.

3.1.4.102.6 Groups

None.

3.1.4.102.7 Attribute Groups

None.

3.1.4.103 RemoveProperty

The **RemoveProperty** operation removes the specified **Property** from the specified **MetadataObject**.

The following is the **WSDL** port type specification of the **RemoveProperty WSDL operation**.

```
<wsdl:operation name="RemoveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveProperty_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveProperty_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The name element is empty or "NULL".
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject does not contain the specified property.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.103.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveProperty_InputMessage	The request WSDL message for the RemoveProperty WSDL operation .
BusinessDataCatalogSharedService_RemoveProperty_OutputMessage	The response WSDL message for the RemoveProperty WSDL operation .

3.1.4.103.1.1 BusinessDataCatalogSharedService_RemoveProperty_InputMessage

The request **WSDL message** for the **RemoveProperty WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty
```

The **SOAP body** contains the **RemoveProperty** element.

3.1.4.103.1.2 BusinessDataCatalogSharedService_RemoveProperty_OutputMessage

The response **WSDL message** for the **RemoveProperty WSDL operation**.

The **SOAP body** contains the **RemovePropertyResponse** element.

3.1.4.103.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveProperty	The input data for the RemoveProperty WSDL operation .
RemovePropertyResponse	The result data for the RemoveProperty WSDL operation .

3.1.4.103.2.1 RemoveProperty

The **RemoveProperty** element specifies the input data for the **RemoveProperty WSDL operation**.

```
<xs:element name="RemoveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

name: The name of the **Property** to be deleted.

settingId: The **Setting** to delete the **Property** from.

3.1.4.103.2 RemovePropertyResponse

The **RemovePropertyResponse** element specifies the result data for the **RemoveProperty WSDL operation**.

```
<xs:element name="RemovePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.103.3 Complex Types

None.

3.1.4.103.4 Simple Types

None.

3.1.4.103.5 Attributes

None.

3.1.4.103.6 Groups

None.

3.1.4.103.7 Attribute Groups

None.

3.1.4.104 RemoveThrottlingRule

The **RemoveThrottlingRule** operation deletes the specified **throttle configuration setting**.

The following is the **WSDL** port type specification of the **RemoveThrottlingRule WSDL operation**.

```
<wsdl:operation name="RemoveThrottlingRule" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleResponse"
    message="tns:BusinessDataCatalogSharedService RemoveThrottlingRule OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified safetyNetStruct is set to null.

3.1.4.104.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage	The request WSDL message for the RemoveThrottlingRule WSDL operation .
BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage	The response WSDL message for the RemoveThrottlingRule WSDL operation .

3.1.4.104.1.1 BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage

The request **WSDL message** for the **RemoveThrottlingRule WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule
```

The **SOAP body** contains the **RemoveThrottlingRule** element.

3.1.4.104.1.2 BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage

The response **WSDL message** for the **RemoveThrottlingRule WSDL operation**.

The **SOAP body** contains the **RemoveThrottlingRuleResponse** element.

3.1.4.104.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
RemoveThrottlingRule	The input data for the RemoveThrottlingRule WSDL operation .
RemoveThrottlingRuleResponse	The result data for the RemoveThrottlingRule WSDL operation .

3.1.4.104.2.1 RemoveThrottlingRule

The **RemoveThrottlingRule** element specifies the input data for the **RemoveThrottlingRule WSDL operation**.

```
<xs:element name="RemoveThrottlingRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="q5:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

safetyNetStruct: The **throttle configuration setting** that is to be deleted from the **metadata store**.

3.1.4.104.2.2 RemoveThrottlingRuleResponse

The **RemoveThrottlingRuleResponse** element specifies the result data for the **RemoveThrottlingRule WSDL operation**.

```
<xs:element name="RemoveThrottlingRuleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

```
        </xs:complexType>
    </xs:element>
```

3.1.4.104.3 Complex Types

None.

3.1.4.104.4 Simple Types

None.

3.1.4.104.5 Attributes

None.

3.1.4.104.6 Groups

None.

3.1.4.104.7 Attribute Groups

None.

3.1.4.105 SaveLocalizedName

The **SaveLocalizedName** operation adds or replaces a **localized name** for the specified **MetadataObject**. If a localized name with the same **LCID** and **Setting** as the specified **LCID** and **Setting** already exists for the specified **MetadataObject**, the protocol server **MUST** replace the localized name of the specified **MetadataObject** with the specified localized name.

The following is the **WSDL** port type specification of the **SaveLocalizedName WSDL operation**.

```
<wsdl:operation name="SaveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedName"
    message="tns:BusinessDataCatalogSharedService SaveLocalizedName InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameResponse"
    message="tns:BusinessDataCatalogSharedService SaveLocalizedName OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultM
    essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService SaveLocalizedName ArgumentNullExceptionFault Fa
    ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService SaveLocalizedName ArgumentOutOfRangeExceptionFa
    ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SaveLocalizedName BdcExceptionStateFault FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SaveLocalizedName InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified localized name is set to null.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject already contains the implementation-specific maximum number of localized names.

3.1.4.105.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage	The request WSDL message for the SaveLocalizedName WSDL operation .
BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage	The response WSDL message for the SaveLocalizedName WSDL operation .

3.1.4.105.1.1 BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage

The request **WSDL message** for the **SaveLocalizedName WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName
```

The **SOAP body** contains the **SaveLocalizedName** element.

3.1.4.105.1.2 BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage

The response **WSDL message** for the **SaveLocalizedName WSDL operation**.

The **SOAP body** contains the **SaveLocalizedNameResponse** element.

3.1.4.105.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SaveLocalizedName	The input data for the SaveLocalizedName WSDL operation .
SaveLocalizedNameResponse	The result data for the SaveLocalizedName WSDL operation .

3.1.4.105.2.1 SaveLocalizedName

The **SaveLocalizedName** element specifies the input data for the **SaveLocalizedName WSDL operation**.

```
<xs:element name="SaveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

lcid: The **LCID** of the **localized name** to be saved.

name: The localized name of the **MetadataObject**.

settingId: The **Setting** to which to write the localized name.

3.1.4.105.2 SaveLocalizedNameResponse

The **SaveLocalizedNameResponse** element specifies the result data for the **SaveLocalizedName WSDL operation**.

```
<xs:element name="SaveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.105.3 Complex Types

None.

3.1.4.105.4 Simple Types

None.

3.1.4.105.5 Attributes

None.

3.1.4.105.6 Groups

None.

3.1.4.105.7 Attribute Groups

None.

3.1.4.106 SaveProperty

The **SaveProperty** operation adds or replaces a **Property** for the specified **MetadataObject**. If a **Property** with the same name as the specified **Property** already exists in the same **Setting** for the specified **MetadataObject**, the protocol server MUST replace the **Property** of the **MetadataObject** with the specified **Property**.

The following is the **WSDL** port type specification of the **SaveProperty WSDL operation**.

```
<wsdl:operation name="SaveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_SaveProperty_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SaveProperty_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting .
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject already contains the implementation-specific maximum number of Properties .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.106.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SaveProperty_InputMessage	The request WSDL message for the SaveProperty WSDL operation .

Message	Description
BusinessDataCatalogSharedService_SaveProperty_OutputMessage	The response WSDL message for the SaveProperty WSDL operation.

3.1.4.106.1.1 BusinessDataCatalogSharedService_SaveProperty_InputMessage

The request **WSDL message** for the **SaveProperty** **WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty
```

The **SOAP body** contains the **SaveProperty** element.

3.1.4.106.1.2 BusinessDataCatalogSharedService_SaveProperty_OutputMessage

The response **WSDL message** for the **SaveProperty** **WSDL operation**.

The **SOAP body** contains the **SavePropertyResponse** element.

3.1.4.106.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SaveProperty	The input data for the SaveProperty WSDL operation .
SavePropertyResponse	The result data for the SaveProperty WSDL operation.

3.1.4.106.2.1 SaveProperty

The **SaveProperty** element specifies the input data for the **SaveProperty** **WSDL operation**.

```
<xs:element name="SaveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="q5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client.

propertyStruct: The **Property** to be saved. The value of its **metadataObjectId** MUST be ignored by the protocol server.

3.1.4.106.2 SavePropertyResponse

The **SavePropertyResponse** element specifies the result data for the **SaveProperty WSDL operation**.

```
<xs:element name="SavePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.106.3 Complex Types

None.

3.1.4.106.4 Simple Types

None.

3.1.4.106.5 Attributes

None.

3.1.4.106.6 Groups

None.

3.1.4.106.7 Attribute Groups

None.

3.1.4.107 SetAccessControlEntries

The **SetAccessControlEntries** operation sets **ACEs** for the specified **MetadataObject**. The protocol server MUST delete all ACEs of the specified **MetadataObject** for the specified **Setting**, and then add the specified ACEs to the specified **MetadataObject**.

Note that if the **SetAccessControlEntries** element, as specified in section [3.1.4.107.2.1](#), contains an **accessControlEntries** element such that any two of its **AccessControlEntryStruct** elements contain the same value for the **principalName** element, the protocol server MUST add only one ACE for that **principalName**.

The following is the **WSDL** port type specification of the **SetAccessControlEntries WSDL operation**.

```
<wsdl:operation name="SetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"/>
```



```

message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExcepci
onFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateF
ault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to set permissions on the specified MetadataObject .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	At least one of the specified ACEs contain an invalid value for principalName element.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectI d for the specified MetadataObject is set to zero ("0").
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify anonymous user to have permissions other than "Execute".

3.1.4.107.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage	The request WSDL message for the SetAccessControlEntries WSDL operation .
BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage	The response WSDL message for the SetAccessControlEntries WSDL operation .

3.1.4.107.1.1 BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage

The request **WSDL message** for the **SetAccessControlEntries WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries
```

The **SOAP body** contains the **SetAccessControlEntries** element.

3.1.4.107.1.2 BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage

The response **WSDL message** for the **SetAccessControlEntries WSDL operation**.

The **SOAP body** contains the **SetAccessControlEntriesResponse** element.

3.1.4.107.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetAccessControlEntries	The input data for the SetAccessControlEntries WSDL operation .
SetAccessControlEntriesResponse	The result data for the SetAccessControlEntries WSDL operation.

3.1.4.107.2.1 SetAccessControlEntries

The **SetAccessControlEntries** element specifies the input data for the **SetAccessControlEntries WSDL operation**.

```
<xs:element name="SetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="q5:ArrayOfAccessControlEntryStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject**. The **partition** of this **MetadataObject** MUST be the partition of the protocol client. The **MetadataObject** MUST be of one of the following types:

- **Entity**
- **LOBSystem**
- **MetadataCatalog**
- **Method**
- **MethodInstance**
- **Model**

accessControlEntries: The ACEs.

settingId: The **Setting** to which to write the ACEs.

3.1.4.107.2.2 SetAccessControlEntriesResponse

The **SetAccessControlEntriesResponse** element specifies the result data for the **SetAccessControlEntries WSDL operation**.

```
<xs:element name="SetAccessControlEntriesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.107.3 Complex Types

None.

3.1.4.107.4 Simple Types

None.

3.1.4.107.5 Attributes

None.

3.1.4.107.6 Groups

None.

3.1.4.107.7 Attribute Groups

None.

3.1.4.108 SetDefaultActionForEntity

The **SetDefaultActionForEntity** operation sets the default **Action** for the specified **Entity**.

The following is the **WSDL** port type specification of the **SetDefaultActionForEntity WSDL operation**.

```
<wsdl:operation name="SetDefaultActionForEntity"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStat
eFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage** response message, unless any faults occur.

If either of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified Entity .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist or does not contain an Action with the specified name.

3.1.4.108.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage	The request WSDL message for the SetDefaultActionForEntity WSDL operation .
BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage	The response WSDL message for the SetDefaultActionForEntity WSDL operation .

3.1.4.108.1.1 BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage

The request **WSDL message** for the **SetDefaultActionForEntity WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity
```

The **SOAP body** contains the **SetDefaultActionForEntity** element.

3.1.4.108.1.2 BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage

The response **WSDL message** for the **SetDefaultActionForEntity WSDL operation**.

The **SOAP body** contains the **SetDefaultActionForEntityResponse** element.

3.1.4.108.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetDefaultActionForEntity	The input data for the SetDefaultActionForEntity WSDL operation .
SetDefaultActionForEntityResponse	The result data for the SetDefaultActionForEntity WSDL operation .

3.1.4.108.2.1 SetDefaultActionForEntity

The **SetDefaultActionForEntity** element specifies the input data for the **SetDefaultActionForEntity WSDL operation**.

```
<xs:element name="SetDefaultActionForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
      <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStruct: The **Entity** to which a default **Action** is to be set. The **partition** of this **Entity** MUST be the partition of the protocol client.

actionName: The name of the **Action** to be set as default **Action** to the specified **Entity**.

partitionId: The partition of the protocol client.

3.1.4.108.2.2 SetDefaultActionForEntityResponse

The **SetDefaultActionForEntityResponse** element specifies the result data for the **SetDefaultActionForEntity WSDL operation**.

```

<xs:element name="SetDefaultActionForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.108.3 Complex Types

None.

3.1.4.108.4 Simple Types

None.

3.1.4.108.5 Attributes

None.

3.1.4.108.6 Groups

None.

3.1.4.108.7 Attribute Groups

None.

3.1.4.109 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** operation sets the **DefaultValue** of the **TypeDescriptor** with the **MetadataObjectId** specified by the **TypeDescriptorId** element of the specified **DefaultValueStruct** complex type for the **MethodInstance**, with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct**.

The following is the **WSDL** port type specification of the **SetDefaultValuesForTypeDescriptor WSDL operation**.

```

<wsdl:operation name="SetDefaultValuesForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault>
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrasructure)	The security principal in whose context the protocol client operates is not authorized to modify the Method that contains the Parameter that contains the specified TypeDescriptor .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified DefaultValue is invalid.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor already contains the implementation-specific maximum number of DefaultValues .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor does not exist or the specified MethodInstance does not exist.

3.1.4.109.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage	The request WSDL message for the SetDefaultValuesForTypeDescriptor WSDL operation .
BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage	The response WSDL message for the SetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.109.1.1 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage

The request **WSDL message** for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor
```

The **SOAP body** contains the **SetDefaultValuesForTypeDescriptor** element.

3.1.4.109.1.2 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage

The response **WSDL message** for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

The **SOAP body** contains the **SetDefaultValuesForTypeDescriptorResponse** element.

3.1.4.109.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetDefaultValuesForTypeDescriptor	The input data for the SetDefaultValuesForTypeDescriptor WSDL operation .
SetDefaultValuesForTypeDescriptorResponse	The result data for the SetDefaultValuesForTypeDescriptor WSDL operation .

3.1.4.109.2.1 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** element specifies the input data for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="SetDefaultValuesForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="defaultValueStruct" nillable="true" type="q5:DefaultValueStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

defaultValueStruct: The **DefaultValue** to be set for the specified **TypeDescriptor**. The **partition** of this element MUST be the partition of the protocol.

partitionId: The partition of the protocol client.

3.1.4.109.2 SetDefaultValuesForTypeDescriptorResponse

The **SetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **SetDefaultValuesForTypeDescriptor WSDL operation**.

```
<xs:element name="SetDefaultValuesForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.109.3 Complex Types

None.

3.1.4.109.4 Simple Types

None.

3.1.4.109.5 Attributes

None.

3.1.4.109.6 Groups

None.

3.1.4.109.7 Attribute Groups

None.

3.1.4.110 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** operation sets the **Business Logic Modules** [<113>](#) for the specified **LobSystem**.

The following is the **WSDL** port type specification of the **SetLobSystemDataByLobSystemId** **WSDL operation**.

```
<wsdl:operation name="SetLobSystemDataByLobSystemId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace	The security

Error complex type	Condition
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	principal in whose context the protocol client operates is not authorized to modify the specified LobSystem .
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.

3.1.4.110.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage	The request WSDL message for the SetLobSystemDataByLobSystemId WSDL operation .
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage	The response WSDL message for the SetLobSystemDataByLobSystemId WSDL operation .

3.1.4.110.1.1 BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage

The request **WSDL message** for the **SetLobSystemDataByLobSystemId WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId
```

The **SOAP body** contains the **SetLobSystemDataByLobSystemId** element.

3.1.4.110.1.2 BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage

The response **WSDL message** for the **SetLobSystemDataByLobSystemId WSDL operation**.

The **SOAP body** contains the **SetLobSystemDataByLobSystemIdResponse** element.

3.1.4.110.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SetLobSystemDataByLobSystemId	The input data for the SetLobSystemDataByLobSystemId WSDL operation .
SetLobSystemDataByLobSystemIdResponse	The result data for the SetLobSystemDataByLobSystemId WSDL operation .

3.1.4.110.2.1 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** element specifies the input data for the **SetLobSystemDataByLobSystemId WSDL operation**.

```
<xs:element name="SetLobSystemDataByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="proxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The **MetadataObjectId** of the **LobSystem**.

proxyGenerationResult: The **Business Logic Modules** <114> to be set in the specified **LobSystem**.

partitionId: The **partition** of the protocol client.

3.1.4.110.2.2 SetLobSystemDataByLobSystemIdResponse

The **SetLobSystemDataByLobSystemIdResponse** element specifies the result data for the **SetLobSystemDataByLobSystemId WSDL operation**.

```
<xs:element name="SetLobSystemDataByLobSystemIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.110.3 Complex Types

None.

3.1.4.110.4 Simple Types

None.

3.1.4.110.5 Attributes

None.

3.1.4.110.6 Groups

None.

3.1.4.110.7 Attribute Groups

None.

3.1.4.111 TypeDescriptorCreate

The **TypeDescriptorCreate** operation creates a **TypeDescriptor** in the **metadata store**.

The following is the **WSDL** port type specification of the **TypeDescriptorCreate WSDL operation**.

```
<wsdl:operation name="TypeDescriptorCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **AccessDeniedExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error if the **security principal** in whose context the protocol client is operating is not authorized to modify the **Method** containing the **Parameter** specified by **parameterStruct** element.

This operation raises the **ArgumentException (from namespace <http://schemas.datacontract.org/2004/07/System>)** error under the following conditions:

- The **TypeDescriptor** specified by the **rawValues** element and the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element are contained by different **Parameters**.
- The data type referenced by the **typeName** element of the specified **TypeDescriptor** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element is "NULL", and the **Parameter** has another **root TypeDescriptor**.
- The **TypeDescriptor** and the parent **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element have the **IsCollection** flag set.
- The **TypeDescriptor** is associated with a **FilterDescriptor**, and the **FilterDescriptor** is not contained by the **Method** that contains the **Parameter** specified by the **parameterStruct** element.
- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element has the **IsCollection** flag set and already contains another **TypeDescriptor**.
- The **TypeDescriptor** has its read-only flag set, and the **Direction** attribute of the **Parameter** is set to "In".

This operation raises the **DuplicateMetadataObjectExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains another **TypeDescriptor** that has the same name.

This operation raises the **ExceededMetadataObjectLimitExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error under the following conditions:

- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains an implementation-specific maximum number of **TypeDescriptors**.
- The metadata store already contains an implementation-specific maximum number of **TypeDescriptors** associated with the **FilterDescriptor** referenced by the specified **TypeDescriptor**.

3.1.4.111.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage	The request WSDL message for the TypeDescriptorCreate WSDL operation .
BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage	The response WSDL message for the TypeDescriptorCreate WSDL operation .

3.1.4.111.1.1 BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage

The request **WSDL message** for the **TypeDescriptorCreate WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate
```

The **SOAP body** contains the **TypeDescriptorCreate** element.

3.1.4.111.1.2 BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage

The response **WSDL message** for the **TypeDescriptorCreate WSDL operation**.

The **SOAP body** contains the **TypeDescriptorCreateResponse** element.

3.1.4.111.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
TypeDescriptorCreate	The input data for the TypeDescriptorCreate WSDL operation .
TypeDescriptorCreateResponse	The result data for the TypeDescriptorCreate WSDL operation .

3.1.4.111.2.1 TypeDescriptorCreate

The **TypeDescriptorCreate** element specifies the input data for the **TypeDescriptorCreate WSDL operation**.

```
<xs:element name="TypeDescriptorCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues"
        nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```

    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

rawValues: The **TypeDescriptor** to create. The **partition** of this **TypeDescriptor** MUST be the partition of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

parentTypeDescriptorStruct: The **TypeDescriptor** that contains the **TypeDescriptor** to create. The partition of this **TypeDescriptor** MUST be the partition of the protocol client. If the **TypeDescriptor** to be created is a **root TypeDescriptor**, then the value of this element MUST be NULL.

parameterStruct: The **Parameter** containing the created **TypeDescriptor**. The partition of this **Parameter** MUST be the partition of the protocol client.

3.1.4.111.2 TypeDescriptorCreateResponse

The **TypeDescriptorCreateResponse** element specifies the result data for the **TypeDescriptorCreate WSDL operation**.

```

<xs:element name="TypeDescriptorCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

TypeDescriptorCreateResult: The created **TypeDescriptor**. The **partition** of this **TypeDescriptor** MUST be the partition of the protocol client.

3.1.4.111.3 Complex Types

None.

3.1.4.111.4 Simple Types

None.

3.1.4.111.5 Attributes

None.

3.1.4.111.6 Groups

None.

3.1.4.111.7 Attribute Groups

None.

3.1.4.112 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** operation merges the **Properties** and **localized names** contained by the **TypeDescriptors** in the specified **MetadataModel** into an existing **TypeDescriptor** in the **metadata store**. The **MetadataModel** MUST be specified as a well-formed external parsed entity, as specified in [\[XML\]](#) section 4.3.2, and MUST have as a root element the **TypeDescriptor** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.34.

The following is the **WSDL** port type specification of the **TypeDescriptorMergeXml WSDL operation**.

```
<wsdl:operation name="TypeDescriptorMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage** request

message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client is operating is not authorized to edit the Method that contains the specified Parameter .
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The "Model" value is specified in the packageContents element.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataModel contains one or more TypeDescriptors that already contain the implementation-specific maximum number of Properties , and the packageContents element has "Properties" set as its value.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataModel specifies one or more TypeDescriptors that already contain the implementation-specific maximum number of localized names, and the packageContents element has "LocalizedNames" as its value.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Parameter could not be found and the specified parent TypeDescriptor is set to null.
PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The TypeDescriptor specified in the MetadataModel does not exist in the specified TypeDescriptor or the specified Parameter if a TypeDescriptor is not specified, or the specified parent TypeDescriptor could not be found.

3.1.4.112.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage	The request WSDL message for the TypeDescriptorMergeX

Message	Description
	ml WSDL operation.
BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage	The response WSDL message for the TypeDescriptorMergeXml WSDL operation.

3.1.4.112.1.1 BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage

The request **WSDL message** for the **TypeDescriptorMergeXml WSDL operation.**

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml
```

The **SOAP body** contains the **TypeDescriptorMergeXml** element.

3.1.4.112.1.2 BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage

The response **WSDL message** for the **TypeDescriptorMergeXml WSDL operation.**

The **SOAP body** contains the **TypeDescriptorMergeXmlResponse** element.

3.1.4.112.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
TypeDescriptorMergeXml	The input data for the TypeDescriptorMergeXml WSDL operation.
TypeDescriptorMergeXmlResponse	The result data for the TypeDescriptorMergeXml WSDL operation.

3.1.4.112.2.1 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** element specifies the input data for the **TypeDescriptorMergeXml WSDL operation.**

```
<xs:element name="TypeDescriptorMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packgeContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    
```

```

    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

xml: The **XML** representation of the **TypeDescriptor** that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.34.

packgeContents: Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server **MUST** use the following rules:

- If the "Properties" value is specified, the protocol server **MUST** merge the **Properties** for the corresponding **TypeDescriptors** for the specified **Setting**. During this merge, if a **Property** that has the same name and setting as the **Property** specified in the **MetadataModel** already exists for the specified **TypeDescriptor**, the protocol server **MUST** remove the existing **Property** and create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **TypeDescriptor**, the protocol server **MUST** create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.
- If the "Properties" value is not specified, the protocol server **MUST** ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server **MUST** merge the **localized names** for the corresponding **TypeDescriptor** for the specified **Setting**. During this merge, if a localized name that has the same **LCID** and **Setting** as the localized name specified by the **MetadataModel** already exists for the specified **TypeDescriptor**, the protocol server **MUST** remove the existing localized name and create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified **LCID** and **Setting** does not exist for the specified **TypeDescriptor**, the protocol server **MUST** create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified, the protocol server **MUST** ignore localized names in the specified **MetadataModel**.

parameterStruct: The **Parameter** that contains the **TypeDescriptor** that is updated. The **partition** of this **Parameter** **MUST** be the partition or the protocol client.

parentTypeDescriptorStruct: The **TypeDescriptor** that contains the **TypeDescriptor** specified by the XML. The partition of this **TypeDescriptor**, if it is specified, **MUST** be the partition of the protocol client. This **TypeDescriptor** **MUST** be NULL if the **TypeDescriptor** specified by the XML is a **root TypeDescriptor**.

settingId: The **Setting** with which to merge the **Properties** and localized names. If the value is NULL, the protocol server **MUST** use the default **Setting** when performing this operation.

callerCultureLcid: This value **MUST** be ignored by the protocol server.

3.1.4.112.2 TypeDescriptorMergeXmlResponse

The **TypeDescriptorMergeXmlResponse** element specifies the result data for the **TypeDescriptorMergeXml WSDL operation**.

```

<xs:element name="TypeDescriptorMergeXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>

```

```

    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorMergeXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

TypeDescriptorMergeXmlResult: The **TypeDescriptor** into which the **Properties** and **localized names** were merged. The **partition** of this **TypeDescriptor** MUST be the partition of the protocol client.

errors: List of implementation-specific error messages that occurred while performing this operation.

3.1.4.112.3 Complex Types

None.

3.1.4.112.4 Simple Types

None.

3.1.4.112.5 Attributes

None.

3.1.4.112.6 Groups

None.

3.1.4.112.7 Attribute Groups

None.

3.1.4.113 TypeDescriptorReadXml

The **TypeDescriptorReadXml** operation creates the **TypeDescriptors** contained by the specified **MetadataModel**, along with their **Properties** and **localized names**, in the **metadata store**. The **MetadataModel** MUST be specified as a well-formed external parsed entity, as specified in [\[XML\]](#) section 4.3.2, and MUST have as a root element the **TypeDescriptor** element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.43.

The following is the **WSDL** port type specification of the **TypeDescriptorReadXml WSDL operation**.

```

<wsdl:operation name="TypeDescriptorReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an **AccessDeniedExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error if the **security principal** in whose context the protocol client is operating is not authorized to modify the **Method** containing the specified **Parameter**.

This operation raises a **PackageFormatExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the "Model" value is not specified in the **packageContents** element.

This operation raises a **ArgumentException (from namespace <http://schemas.datacontract.org/2004/07/System>)** error under the following conditions:

- The data type referenced by a **TypeDescriptor** contained by the **MetadataModel** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.

- The specified **TypeDescriptor** is not contained by the specified **Parameter**.

This operation raises the **DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error if the specified **TypeDescriptor** already contains another **TypeDescriptor** with the same name as the **TypeDescriptor** that corresponds to the **MetadataModel**.

This operation raises the **ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error under the following conditions:

- The specified **MetadataModel** contains a **TypeDescriptor** that contains more **TypeDescriptors** than the implementation-specific maximum number of **TypeDescriptors**.
- The specified **TypeDescriptor** contains the implementation-specific maximum number of **TypeDescriptors**.

This operation raises the **MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error if the specified **Parameter** or the specified **TypeDescriptor** does not exist.

This operation raises the **PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error under the following conditions:

- The specified XML does not conform to the format specified in [MS-BDCMFFS].
- The **Method** containing the specified **Parameter** does not contain the **FilterDescriptor** referenced by the specified **MetadataModel**.
- The specified **MetadataModel** contains a **TypeDescriptor** that has the **ReadOnly** flag set, and the specified **Parameter** has the **Direction** attribute set to "In".
- The specified **TypeDescriptor** is NULL, and the specified **Parameter** already has a **root TypeDescriptor**.
- The specified **TypeDescriptor** has the **IsCollection** flag set, and the **TypeDescriptor** that corresponds to the specified **MetadataModel** also has the **IsCollection** flag set.
- The specified **TypeDescriptor** has the **IsCollection** flag set and already contains a **TypeDescriptor**.
- The **MetadataModel** contains a **TypeDescriptor** that has the **IsCollection** flag set and contains another **TypeDescriptor** that has the **IsCollection** flag set.

3.1.4.113.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage	The request WSDL message for the TypeDescriptorReadXml I WSDL operation .
BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage	The response WSDL message for the TypeDescriptorReadXml I WSDL operation .

3.1.4.113.1.1 BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage

The request **WSDL message** for the **TypeDescriptorReadXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml
```

The **SOAP body** contains the **TypeDescriptorReadXml** element.

3.1.4.113.1.2 BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage

The response **WSDL message** for the **TypeDescriptorReadXml WSDL operation**.

The **SOAP body** contains the **TypeDescriptorReadXmlResponse** element.

3.1.4.113.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
TypeDescriptorReadXml	The input data for the TypeDescriptorReadXml WSDL operation .
TypeDescriptorReadXmlResponse	The result data for the TypeDescriptorReadXml WSDL operation .

3.1.4.113.2.1 TypeDescriptorReadXml

The **TypeDescriptorReadXml** element specifies the input data for the **TypeDescriptorReadXml WSDL operation**.

```
<xs:element name="TypeDescriptorReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The **XML** representation of the **MetadataModel** that conforms to the Business Data Connectivity Model file format specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies the part of the **MetadataModel** to be created. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified **localized names** for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

parameterStruct: The **Parameter** in which to create the **TypeDescriptors** contained by the **MetadataModel**. The **partition** of this **Parameter** MUST be the partition of the protocol client.

parentTypeDescriptorStruct: The **TypeDescriptor** in which to create the **TypeDescriptors** contained by the **MetadataModel**. The value of this element MUST be NULL if the **MetadataModel** contains the **root TypeDescriptor** of the **Parameter**. The partition of this **TypeDescriptor** MUST be the partition of the protocol client.

callerCultureLcid: This value MUST be ignored by the protocol server.

3.1.4.113.2.2 TypeDescriptorReadXmlResponse

The **TypeDescriptorReadXmlResponse** element specifies the result data for the **TypeDescriptorReadXml WSDL operation**.

```
<xs:element name="TypeDescriptorReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

TypeDescriptorReadXmlResult: The **TypeDescriptor** from the **metadata store** that is corresponding to the specified **MetadataModel**. The **partition** of this **TypeDescriptor** MUST be the partition of the protocol client.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.113.3 Complex Types

None.

3.1.4.113.4 Simple Types

None.

3.1.4.113.5 Attributes

None.

3.1.4.113.6 Groups

None.

3.1.4.113.7 Attribute Groups

None.

3.1.4.114 Update

The **Update** operation updates a **MetadataObject** in the **metadata store**.

The following is the **WSDL** port type specification of the **Update WSDL operation**.

```
<wsdl:operation name="Update" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse" message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_Update_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Update_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **AccessDeniedExceptionState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>)** error if the **security principal** in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**.

This operation raises the **ArgumentException (from namespace <http://schemas.datacontract.org/2004/07/System>)** error under either of the following conditions:

- The specified **MetadataObject** name is "NULL" or empty.
- The length of the specified **MetadataObject** name exceeds 255 characters.

This operation raises the **ConcurrentModificationExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the specified **MetadataObject** has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be raised when one context reads the **MetadataObject**, another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**.

This operation raises the **DuplicateMetadataObjectExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the parent **MetadataObject** contains another **MetadataObject** with the same **MetadataObject** name.

This operation raises the **ExceededMetadataObjectLimitExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error if the parent of the specified **MetadataObject** already contains the implementation-specific maximum number of **MetadataObjects** of the same type as the specified **MetadataObject**.

This operation raises the **InvalidMetadataObjectExceptionState (from namespace [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData))** error under the following conditions:

- The specified **MetadataObject** is a **root TypeDescriptor** and is being updated to be part of a **Parameter** that already has a root **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor** that has its **Parameter** being changed to the specified **Parameter**, and the specified **Parameter** already has a root **TypeDescriptor**. [<115>](#)
- The specified **MetadataObject** is a **TypeDescriptor**, and the **IsCollection** flag cannot be set on a **TypeDescriptor** if its containing **TypeDescriptor** also has the **IsCollection** flag set.
- The specified **MetadataObject** is a **TypeDescriptor**, and a **TypeDescriptor** with the **IsCollection** flag set can only contain one **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **FilterDescriptor** associated with the specified **TypeDescriptor** is not defined for the **Method** that contains the **Parameter** containing the specified **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the containing **TypeDescriptor** is different from the **Parameter** containing the specified **TypeDescriptor**.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the specified **TypeDescriptor** has a **TypeDescriptor** hierarchy deeper than an implementation-specific, maximum-allowed depth.
- The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the specified **TypeDescriptor** has the **Direction** attribute set to "In", but, the specified **TypeDescriptor** has "Read-Only" for the **TypeDescriptorFlags** attribute.

- The operation cannot be performed because the specified **MetadataObject** is the **FilterDescriptor**, and one of the following conditions exists:
 - The **Method** associated with the specified **FilterDescriptor** already contains a **FilterDescriptor** of type **TimeStampFilter**, and the specified **FilterDescriptor** is being changed to a **FilterDescriptor** of type **TimeStampFilter**.
 - The **Method** that contains the specified **FilterDescriptor** also contains a **MethodInstance** of type **ChangedIdEnumerator** or **DeletedIdEnumerator**, and the type of the **FilterDescriptor** is being changed from **TimeStampFilter** to another type.

This operation raises the **InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)** error under the following conditions:

- The operation cannot be performed because the specified **MetadataObject** is an **Association** or a **MethodInstance** contained by an active **Entity**.[<116>](#)

The operation cannot be performed because the specified **MetadataObject** is an **Entity** that has its name or namespace being updated, and another **Entity** with the specified name and namespace is currently being referenced by other **MetadataObjects**. This operation raises the **MetadataException (from namespace Microsoft.SharePoint.BusinessData)** error under the following conditions:

- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the specified type for the **MethodInstance** in the request message requires a **Parameter** with the **Direction** attribute set to "In" or "InOut" to be present on the **Method** containing the specified **Association** or **MethodInstance**. However, the specified type for the existing **MethodInstance** on the protocol server does not require such a **Parameter**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **Parameter** of the specified **ReturnTypeDescriptor** is not contained by the same **Method** as the specified **Association** or **MethodInstance**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **Parameter** containing the specified **ReturnTypeDescriptor** has the **Direction** attribute set to "In".
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required for **MethodInstance** if the type of **MethodInstance** is one of the following values. However, it is passed in as NULL or zero.
 - AccessChecker
 - AssociationNavigator
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Finder
 - IdEnumerator
 - Scalar
 - SpecificFinder
 - StreamAccessor
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to not contain any **TypeDescriptors** for the specified type of the **MethodInstance**.

- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnPropertyDescriptor** is required to have the **IsCollection** flag set for the specified type of the **MethodInstance**.
- The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnPropertyDescriptor** is required to have the **IsCollection** flag not set for the specified type of the **MethodInstance**. This is the case if the specified type of **MethodInstance** is one of the following values:
 - ChangedIdEnumerator
 - DeletedIdEnumerator
 - Finder
 - IdEnumerator
- The specified **MetadataObject** is a **Parameter**, and the specified **Parameter** cannot have the **Direction** attribute set to "In" because the specified **Parameter** contains a **ReturnPropertyDescriptor** of a **MethodInstance**.
- The specified **MetadataObject** is a **Parameter**, and the **Method** that contains the specified **Parameter** already contains a **Parameter** with the **Direction** attribute set to "Return".
- The specified **MetadataObject** is a **Parameter**, and the specified **Parameter** cannot have the **Direction** attribute set to "In" because one of the **TypeDescriptors** contained by the specified **Parameter** has the "Read-Only" value set in the **TypeDescriptorFlags** attribute.
- The specified **MetadataObject** is an **Entity**, and the specified CacheUsage or Version is invalid.
- The specified **MetadataObject** is a **Parameter**, and the specified direction is invalid.
- The specified **MetadataObject** is a **MethodInstance**, and the specified type is invalid.
- The specified **MetadataObject** is a **TypeDescriptor**, and the specified flags are invalid.
- The specified **MetadataObject** is a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnPropertyDescriptor** is required not to contain any other **TypeDescriptors** for **MethodInstance** of **StreamAccessor** type, and the type for the **LobSystem** containing the **Entity** containing **MethodInstance** of **StreamAccessor** type is **DataBase**.
- The specified **MetadataObject** is a **MethodInstance**, and one of the following conditions is true:
 - The type of the specified **MethodInstance** is **IdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **IdEnumerator**.
 - The type of the specified **MethodInstance** is **AccessChecker**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **AccessChecker**.
 - The type of the specified **MethodInstance** is **Deleter**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **Deleter**.
 - The type of the specified **MethodInstance** is **ChangedIdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **ChangedIdEnumerator**.
 - The type of the specified **MethodInstance** is **DeletedIdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **DeletedIdEnumerator**.

- The type of the specified **MethodInstance** is **BulkIdEnumerator**, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **BulkIdEnumerator**.<117>

This operation raises the **MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)** error if the specified **MetadataObject** does not exist.

Upon successful completion of this operation, the protocol server MUST increment the object version of any **MetadataObjects** that it updated. If the incremented object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated **MetadataObjects** to zero.

If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to updating the specified **MetadataObject** in the metadata store.

MetadataObject	Action
Parameter	<p>If the ordinalNumber attribute of the specified Parameter is the same as the ordinalNumber attribute of another Parameter contained by the Method containing the specified Parameter, then the ordinalNumber attribute of Parameters contained by that Method that have the ordinalNumber attribute greater than or equal to the ordinalNumber attribute of the specified Parameter MUST be incremented.</p> <p>After the operation completes, all Parameters contained by the Method containing the specified Parameter MUST have ordinalNumber attributes in the range from zero to $n-1$, where n is the number of Parameters contained by that Method. Parameters not contained by the Method that contains the specified Parameter MUST NOT have their ordinalNumber attributes altered.<118></p>
MethodInstance	<p>When the isDefault attribute of the specified MethodInstance is set to "true", the protocol server MUST set the isDefault attribute of all other MethodInstances that have the same value for the MethodInstanceType attribute in the containing DataClass to "false". When the isDefault attribute of the specified MethodInstance is set to "false" (and it was previously set to "true"), the protocol server SHOULD<119> set the isDefault attribute of a MethodInstance with the same value for MethodInstanceType in the containing DataClass to "true". The protocol server MUST determine the MethodInstance to alter, based on an implementation-specific algorithm.</p>

3.1.4.114.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_Update_InputMessage	The request WSDL message for the Update WSDL operation .

Message	Description
BusinessDataCatalogSharedService_Update_OutputMessage	The response WSDL message for the Update WSDL operation.

3.1.4.114.1.1 BusinessDataCatalogSharedService_Update_InputMessage

The request **WSDL message** for the **Update WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update
```

The **SOAP body** contains the **Update** element.

3.1.4.114.1.2 BusinessDataCatalogSharedService_Update_OutputMessage

The response **WSDL message** for the **Update WSDL operation**.

The **SOAP body** contains the **UpdateResponse** element.

3.1.4.114.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
Update	The input data for the Update WSDL operation .
UpdateResponse	The result data for the Update WSDL operation .

3.1.4.114.2.1 Update

The **Update** element specifies the input data for the **Update WSDL operation**.

```
<xs:element name="Update" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The **MetadataObject** to update. The **MetadataObjectId** and the **partition** of the specified **MetadataObject** MUST be used to identify the **MetadataObject** to update. The remaining values of the specified **MetadataObject** MUST be used to update the values associated with the identified **MetadataObject** in the **metadata store**.

3.1.4.114.2.2 UpdateResponse

The **UpdateResponse** element specifies the result data for the **Update WSDL operation**.

```
<xs:element name="UpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

UpdateResult: The updated **MetadataObject**.

3.1.4.114.3 Complex Types

None.

3.1.4.114.4 Simple Types

None.

3.1.4.114.5 Attributes

None.

3.1.4.114.6 Groups

None.

3.1.4.114.7 Attribute Groups

None.

3.1.4.115 WriteSlicedXml

The **WriteSlicedXml** operation retrieves an implementation-specific string corresponding to the specified **LobSystem** or **Model**, [<120>](#) along with its included **MetadataObjects**. This operation can also optionally retrieve the **localized names**, **Properties**, and **ACEs** in all **Settings**. The protocol client uses this operation to back up a **Model** or an **LobSystem** in a specified **partition**. The **ReadSlicedXml** operation, as specified in section 3.1.4.100, can be used to restore the **Model** or **LobSystem** by specifying the string returned from this operation.

The following is the **WSDL** port type specification of the **WriteSlicedXml WSDL operation**.

```
<wsdl:operation name="WriteSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns:BusinessDataCatalogSharedService WriteSlicedXml InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal in whose context the protocol client operates is not authorized to modify the specified Model or LOBSystem and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The "InlineProxies" value requires the "Model" value to

Error complex type	Condition
	also be specified for the packageContents element.

3.1.4.115.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage	The request WSDL message for the WriteSlicedXml WSDL operation .
BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage	The response WSDL message for the WriteSlicedXml WSDL operation .

3.1.4.115.1.1 BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage

The request **WSDL message** for the **WriteSlicedXml WSDL operation**.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml
```

The **SOAP body** contains the **WriteSlicedXml** element.

3.1.4.115.1.2 BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage

The response **WSDL message** for the **WriteSlicedXml WSDL operation**.

The **SOAP body** contains the **WriteSlicedXmlResponse** element.

3.1.4.115.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
WriteSlicedXml	The input data for the WriteSlicedXml WSDL operation .
WriteSlicedXmlResponse	The result data for the WriteSlicedXml WSDL operation .

3.1.4.115.2.1 WriteSlicedXml

The **WriteSlicedXml** element specifies the input data for the **WriteSlicedXml WSDL operation**.

```

<xs:element name="WriteSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

metadataObjectStruct: The **LobSystem** or **Model** to be retrieved. The **partition** of this **Model** or **LobSystem** MUST be the partition of the protocol client.

packageContents: This value of this element SHOULD [<121>](#) be set to "All".

3.1.4.115.2 WriteSlicedXmlResponse

The **WriteSlicedXmlResponse** element specifies the result data for the **WriteSlicedXml WSDL operation**.

```

<xs:element name="WriteSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

WriteSlicedXmlResult: An implementation-specific string representing the specified **Model** or **LobSystem**.

3.1.4.115.3 Complex Types

None.

3.1.4.115.4 Simple Types

None.

3.1.4.115.5 Attributes

None.

3.1.4.115.6 Groups

None.

3.1.4.115.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view of how the protocol client operates with the protocol server when running such an operation.

The examples in this section manipulate **LoSystem** and **Entities**. However, the concepts illustrated apply equally to other **MetadataObjects**.

4.1 Creating an LoSystem

This example illustrates how a user can create an **LoSystem** in the **metadata store**.

The following actions are carried out:

1. The user requests the protocol client to create an **LoSystem** named ExampleCRM.
2. The protocol client uses the **MetadataObjectCreate** operation as shown in the following code example.

```
// Assumes a service reference to the Business Data Connectivity shared service has been
created.

// Instantiates the Business Data Connectivity SharedService client.
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient ();

// Instantiates the AdministrationMetadataCatalogStruct complex type.
BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new
BDCServiceReference.AdministrationMetadataCatalogStruct ();
myBDC.id = 1;

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
myBDC.partitionId = myPartition;

// Instantiates the LoSystem object.
BDCServiceReference.LoSystemStruct myLoB = new BDCServiceReference.LoSystemStruct ();

// Sets up the LoSystem object.
myLoB.partitionId = myPartition;
myLoB.name = "ExampleCRM";
myLoB.systemType = BDCServiceReference.SystemType.Database;

// Uses the MetadataObjectCreate operation to create the LoSystem.
myClient.MetadataObjectCreate(myLoB, myBDC);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
      alogSharedService/MetadataObjectCreate</a:Action>
    <a:MessageID>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">
      http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
```

```

</s:Header>
<s:Body>
  <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
    <rawValues i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:id>0</b:id>
      <b:isCached>>false</b:isCached>
      <b:name>ExampleCRM</b:name>
      <b:objectVersion>0</b:objectVersion>
      <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
      <b:systemType>Database</b:systemType>
    </rawValues>
    <parentStruct i:type="b:AdministrationMetadataCatalogStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
      <b:id>1</b:id><b:isCached>>false</b:isCached><b:name
i:nil="true"/><b:objectVersion>0</b:objectVersion><b:partitionId>0c37852b-34d0-418e-91c6-
2ac25af4be5b</b:partitionId>
    </parentStruct>
  </MetadataObjectCreate>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/MetadataObjectCreateResponse</a:Action>
    <a:RelatesTo>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:RelatesTo>
  </s:Header>
  <s:Body>
    <MetadataObjectCreateResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <MetadataObjectCreateResult i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </MetadataObjectCreateResult>
    </MetadataObjectCreateResponse>
  </s:Body>
</s:Envelope>

```

4.2 Setting the Security Information of a MetadataObject

This example illustrates how a user can set security information for an **LobSystem**.

This example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to set ACEs on the **LobSystem** named ExampleCRM.
2. The protocol client uses the **SetAccessControlEntries** operation as shown in the following code.

```
//This method shows how to set the ACL entries on an entity
```

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;
BDCServiceReference.AccessControlEntryStruct myACL;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//setup the ACL object
myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
myACL.rights = 23;
myACL.principalName = "Domain\\UserName";
myACL.principalDisplayName = "UserName";

myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] { myACL };

// set the ACL on the metadataobject by calling the SetAccessControlEntries method
myClient.SetAccessControlEntries(myLob, myACLs, null);

```

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SetAccessControlEntries</a:Action>
    <a:MessageID>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">
http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <SetAccessControlEntries
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </metadataObjectStruct>
      <accessControlEntries xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:AccessControlEntryStruct>
          <b:principalBinaryForm i:nil="true"/>
          <b:principalDisplayName>UserName</b:principalDisplayName>
          <b:principalName>Domain\UserName</b:principalName>
          <b:rights>23</b:rights>
        </b:AccessControlEntryStruct>
      </accessControlEntries>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
    </SetAccessControlEntries>
  </s:Body>
</s:Envelope>

```


Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse</a:Action>
    <a:RelatesTo>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SetAccessControlEntriesResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```

4.3 Reading the Security Information of a MetadataObject

This example illustrates how a user can read the ACEs of an **LobSystem**.

This example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** named ExampleCRM.
2. The protocol client uses the **GetAccessControlEntries** operation as shown in the following code.

```
//This method shows how to set the ACL entries on an entity.
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;

//Instantiates the BDCSharedServiceClient.
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Obtain the metadataobject with the name.
myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Read the ACL entries on the entity
myACLs = myClient.GetAccessControlEntries(myLob, null, true);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries</a:Action>
    <a:MessageID>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
```

```

    <GetAccessControlEntries
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
  <metadataObjectStruct i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
    <b:id>105</b:id>
    <b:isCached>>false</b:isCached>
    <b:name>ExampleCRM</b:name>
    <b:objectVersion>0</b:objectVersion>
    <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
    <b:systemType>Database</b:systemType>
  </metadataObjectStruct>
  <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
  <fallback>>true</fallback>
</GetAccessControlEntries>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/GetAccessControlEntriesResponse</a:Action>
    <a:RelatesTo>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetAccessControlEntriesResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetAccessControlEntriesResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:AccessControlEntryStruct>
          <b:principalBinaryForm i:nil="true"/>
          <b:principalDisplayName>UserName</b:principalDisplayName>
          <b:principalName>Domain\UserName</b:principalName>
          <b:rights>23</b:rights>
        </b:AccessControlEntryStruct>
      </GetAccessControlEntriesResult>
    </GetAccessControlEntriesResponse>
  </s:Body>
</s:Envelope>

```

4.4 Creating an Entity

This example illustrates how a user can create an **Entity** in the **metadata store**.

The example assumes that:

- An **LobSystem** that contains the **Entity** is already created in the metadata store.
- The **LobSystem** is named ExampleCRM.
- The **PartitionId** used when creating the **LobSystem** is 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
- The **LobSystem** has an **ACE** associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** named Customer in the namespace example.com with an estimated instance count of 100.
2. The protocol client uses the **EntityCreate** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient ();

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Obtain the LOB system before creating the entity.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct ();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Instantiate the entity object.
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct ();

//Set properties.
myEntity.name = "Customer";
myEntity.@namespace = "example.com";
myEntity.isCached = true;
myEntity.objectVersion = 0;
System.Version ver = new Version(1,0,0,0);
myEntity.version = ver;
myEntity.partitionId = myPartition;
myEntity.estimatedInstanceCount = 100;

//Create the entity.
myClient.EntityCreate(myEntity,myLob,null);

```

3. The protocol server creates the **Entity** in the metadata store.
4. The protocol server copies the ACE of the **LobSystem** and associates it with the newly created **Entity**.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action>
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate</a:Action>
    <a:MessageID>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To>
      s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
    </s:Header>
    <s:Body>
      <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <rawValues xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>0</b:id>
          <b:isCached>true</b:isCached>
          <b:name>Customer</b:name>
          <b:objectVersion>0</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:active>>false</b:active>
          <b:lobSystemId>0</b:lobSystemId>
          <b:modelId>0</b:modelId>
          <b:namespace>example.com</b:namespace>
          <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
            <c:_Build>0</c:_Build>
            <c:_Major>1</c:_Major>
            <c:_Minor>0</c:_Minor>
            <c:_Revision>0</c:_Revision>
          </b:version>
          <b:cacheUsage>Default</b:cacheUsage>

```

```

        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
    </rawValues>
    <lobSystemStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
    </lobSystemStruct>
    <modelStruct i:nil="true" xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</EntityCreate>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
    <s:Header>
        <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse</a:Action>
        <a:RelatesTo>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:RelatesTo>
    </s:Header>
    <s:Body>
        <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
            <EntityCreateResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <b:id>106</b:id>
                <b:isCached>>true</b:isCached>
                <b:name>Customer</b:name>
                <b:objectVersion>0</b:objectVersion>
                <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
                <b:active>>false</b:active>
                <b:lobSystemId>105</b:lobSystemId>
                <b:modelId>0</b:modelId>
                <b:namespace>example.com</b:namespace>
                <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
                    <c:_Build>0</c:_Build>
                    <c:_Major>1</c:_Major>
                    <c:_Minor>0</c:_Minor>
                    <c:_Revision>0</c:_Revision>
                </b:version>
                <b:cacheUsage>Default</b:cacheUsage>
                <b:description i:nil="true"/>
                <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
            </EntityCreateResult>
        </EntityCreateResponse>
    </s:Body>
</s:Envelope>

```

4.5 Activating an Entity

This example illustrates how a user can set a version of an **Entity** to be active in the **metadata store**.

This example assumes that:

- The preceding examples have successfully finished.

- After successfully creating the Customer **Entity**, the user has added some other **MetadataObjects** to it, such as an **Identifier**, a **Method**, and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** named Customer in the namespace example.com with the **PartitionID** 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
2. The protocol client uses the **Activate** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1,0,0,0);

myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer", ver,
partition);

BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);
```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/Activate</a:Action>
    <a:MessageID>urn:uuid:351c762f-9a6f-4bc9-a208-9049c347c23d</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <entityStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:Build>0</c:Build>
          <c:Major>1</c:Major>
          <c:Minor>0</c:Minor>
          <c:Revision>0</c:Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </entityStruct>
    </Activate>
  </s:Body>
```

```
</s:Envelope>
```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse</a:Action>
    <a:RelatesTo>urn:uuid:d15e58ca-2cb9-4528-86f3-728a00f6c643</a:RelatesTo>
  </s:Header>
  <s:Body>
    <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <ActivateResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </ActivateResult>
    </ActivateResponse>
  </s:Body>
</s:Envelope>
```

4.6 Reading an Entity

This example shows how a user can read an **Entity** in the **metadata store**.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** named Customer in the namespace example.com from the metadata store.
2. The protocol client uses the **GetEntityWithNameAndNamespace** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server retrieves the attributes of the stored **Entity**.
5. The protocol server returns an **Entity** object to the protocol client.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/GetEntityWithNameAndNamespace</a:Action>
    <a:MessageID>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <GetEntityWithNameAndNamespace
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <namespace>example.com</namespace>
      <name>Customer</name>
      <partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</partitionId>
    </GetEntityWithNameAndNamespace>
  </s:Body>
</s:Envelope>
```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/GetEntityWithNameAndNamespaceResponse</a:Action>
    <a:RelatesTo>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetEntityWithNameAndNamespaceResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetEntityWithNameAndNamespaceResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c: Build>0</c: Build>
          <c: Major>1</c: Major>
          <c: Minor>0</c: Minor>
          <c: Revision>0</c: Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </GetEntityWithNameAndNamespaceResult>
    </GetEntityWithNameAndNamespaceResponse>
  </s:Body>
```

```
</s:Envelope>
```

4.7 Creating Properties for MetadataObjects

This example shows how a user can create **Properties** for an **Entity** in the **metadata store**. The concepts can be applied to any other **MetadataObject**.

The example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to create a **Property** for the **Entity** named Customer in the namespace example.com.
2. To add a custom **Property** named CustomerAlternateName, the protocol client uses the **SaveProperty** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
BDCServiceReference.PropertyStruct myProperty = new BDCServiceReference.PropertyStruct();
System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Get the entity object using the name and namespace
myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

//Setup the Property object
myProperty.name = "CustomerAlternateName";
myProperty.typeName = "System.String";
myProperty.settingId = null;

//Add the custom propety to the entity object
myClient.SaveProperty(myEntity, myProperty);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SaveProperty</a:Action>
    <a:MessageID>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
```



```

    <b:lobSystemId>105</b:lobSystemId>
    <b:modelId>0</b:modelId>
    <b:namespace>example.com</b:namespace>
    <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
      <c:_Build>0</c:_Build>
      <c:Major>1</c:Major>
      <c:Minor>0</c:Minor>
      <c:Revision>0</c:Revision>
    </b:version>
    <b:cacheUsage>Default</b:cacheUsage>
    <b:description i:nil="true"/>
    <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
  </metadataObjectStruct>
  <propertyStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <b:needsTypeReflectionResolution>false</b:needsTypeReflectionResolution>
    <b:wcfMarshallableValue i:nil="true"/>
    <b:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
    <b:wcfMarshallableValueType i:nil="true"/>
    <b:metadataObjectId>0</b:metadataObjectId>
    <b:name>CustomerAlternateName</b:name>
    <b:settingId i:nil="true"/>
    <b:typeName>System.String</b:typeName>
  </propertyStruct>
</SaveProperty>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SavePropertyResponse</a:Action>
    <a:RelatesTo>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

4.8 Adding Localized Names for Metadata Objects

This example shows how a user can add a **localized name** for an **Entity** in the **metadata store**. The concepts can be applied to any other **Metadata Object**.

The example assumes that the preceding examples have successfully finished and that the user wants to create the localized name for **language code identifier (LCID)** 2058.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** named Customer in the namespace example.com.
2. The protocol client uses the **SaveLocalizedName** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

```

```

System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);

```

3. The protocol server checks whether an **Entity** named Customer in the namespace example.com exists in the metadata store.
4. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName</a:Action>
    <a:MessageID>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:Build>0</c:Build>
          <c:Major>1</c:Major>
          <c:Minor>0</c:Minor>
          <c:Revision>0</c:Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
      <lcid>2058</lcid>
      <name>Cliente</name>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
    </SaveLocalizedName>
  </s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      xmlns:m="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse">
      m:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse</a:Action>
    </a:Action>
    <a:RelatesTo>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SaveLocalizedNameResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

4.9 Updating an Entity

This example illustrates how a user can update an **Entity** in the **metadata store**.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** named Customer in the namespace example.com and changes its name from Customer to Buyer.
2. The protocol client uses the **Update** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,1,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

// Set the name property to "Buyer"
myEntity.name = "Buyer";

// Call update method.
myClient.Update(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server updates the name attributes of the **Entity** with the supplied value.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      xmlns:m="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update">
      m:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update</a:Action>
    </a:Action>
    <a:MessageID>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
      xmlns:r="http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc">
      r:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
    </a:To>
  </s:Header>
  <s:Body>
  </s:Body>
</s:Envelope>

```

```

</s:Header>
<s:Body>
  <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
    <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
      <b:id>106</b:id>
      <b:isCached>true</b:isCached>
      <b:name>Buyer</b:name>
      <b:objectVersion>2</b:objectVersion>
      <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
      <b:active>true</b:active>
      <b:lobSystemId>105</b:lobSystemId>
      <b:modelId>0</b:modelId>
      <b:namespace>example.com</b:namespace>
      <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
        <c: Build>0</c: Build>
        <c: _Major>1</c: _Major>
        <c: _Minor>0</c: _Minor>
        <c: _Revision>0</c: _Revision>
      </b:version>
      <b:cacheUsage>Default</b:cacheUsage>
      <b:description i:nil="true"/>
      <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
    </metadataObjectStruct>
  </Update>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/UpdateResponse</a:Action>
    <a:RelatesTo>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:RelatesTo>
  </s:Header>
  <s:Body>
    <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <UpdateResult i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>3</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c: Build>0</c: Build>
          <c: _Major>1</c: _Major>
          <c: _Minor>0</c: _Minor>
          <c: _Revision>0</c: _Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </UpdateResult>
    </UpdateResponse>
  </s:Body>
</s:Envelope>

```

4.10 Deleting an Entity

This example illustrates how a user can delete an **Entity** in the **metadata store**.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** named Buyer in the namespace example.com.
2. The protocol client uses the **Delete** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1, 1);

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer", myPartition);
myClient.Delete(myEntity);
```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server deletes the **Entity** from the metadata store.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete</a:Action>
    <a:MessageID>urn:uuid:f1ee589a-df6b-48d1-83e4-9b28b2282414</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
      s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
    </s:Header>
    <s:Body>
      <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <metadataObjectStruct i:type="b:EntityStruct"
          xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>106</b:id>
          <b:isCached>true</b:isCached>
          <b:name>Buyer</b:name>
          <b:objectVersion>3</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:active>true</b:active>
          <b:lobSystemId>105</b:lobSystemId>
          <b:modelId>0</b:modelId>
          <b:namespace>example.com</b:namespace>
          <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
            <c:Build>0</c:Build>
            <c:Major>1</c:Major>
            <c:Minor>0</c:Minor>
            <c:Revision>0</c:Revision>
          </b:version>
          <b:cacheUsage>Default</b:cacheUsage>
          <b:description i:nil="true"/>
        </Delete>
      </s:Body>
    </s:Envelope>
```

```
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
    </Delete>
  </s:Body>
</s:Envelope>
```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/DeleteResponse</a:Action>
    <a:RelatesTo>urn:uuid:f1ee589a-df6b-48d1-83e4-9b28b2282414</a:RelatesTo>
  </s:Header>
  <s:Body>
    <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns5="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/">
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
      <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
      <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="BusinessDataCatalogSharedService">
    <wsdl:operation name="GetServiceApplicationId">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationId"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPartitionIds">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIds"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

```



```

message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_
FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ReadSlicedXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXml"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultM
essage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessa
ge"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultM
essage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessa
ge"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_Fa
ultMessage"/>
                    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_Fault
Message"/>
                      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_
FaultMessage"/>
                        </wsdl:operation>
                        <wsdl:operation name="WriteSlicedXml">
                          <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"/>
                            <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="HaveRights">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRights"
message="tns:BusinessDataCatalogSharedService HaveRights InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns:BusinessDataCatalogSharedService HaveRights OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService HaveRights BdcExceptionStateFault FaultMessage"
/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMes
sage"/>
</wsdl:operation>
  <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inp
utMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Out
putMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bdc
ExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inv
alidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Met
adataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAllLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetAllLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames BdcExceptionStateFault Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames MetadataExceptionStateFaul
t_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService GetAllPropertiesForMetadataObjectStruct InputMe
ssage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService GetAllPropertiesForMetadataObjectStruct OutputM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllPropertiesForMetadataObjectStruct BdcExce
ptionStateFault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invalid
OperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metadat
aExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllProperties"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SaveLocalizedName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedName"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultM
essage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ClearLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNames"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault
_FaultMessage"/>

```

```

    </wsdl:operation>
    <wsdl:operation name="RemoveLocalizedName">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedName"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName ArgumentNullExceptionFault
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InvalidOperationExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SaveProperty">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveProperty"
message="tns:BusinessDataCatalogSharedService SaveProperty InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyResponse"
message="tns:BusinessDataCatalogSharedService SaveProperty OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMe
ssage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeException_F
aultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultM
essage"/>
  </wsdl:operation>
  <wsdl:operation name="ClearProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearProperties"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fau
ltMessage"/>
  </wsdl:operation>
  <wsdl:operation name="RemoveProperty">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveProperty"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyResponse"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```



```

edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveProperty ArgumentExceptionFault FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAccessControlEntries">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExcep
tionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"

```

```

name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries MetadataExceptionStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="SetAccessControlEntries">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetAccessControlEntries InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="MetadataObjectCreate">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"

```

```

name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Update">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse"
message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage"
"/>
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete" message="tns:BusinessDataCatalogSharedService_Delete_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse"
message="tns:BusinessDataCatalogSharedService_Delete_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage
"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectMergeXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectMergeXml PackageFormatExceptionSt
ateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="MetadataObjectReadXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXml"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlResponse"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml PackageFormatExceptionSta
teFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="MetadataObjectWriteXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml ArgumentNullExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml ArgumentOutofRangeExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="CopyAclAcrossChildren">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildren"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutofRangeExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren BdcExceptionStateFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren InvalidOperationException
Fault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFau
lt FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildrenForSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcepti
onFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
eptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRa
ngeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperatio
nExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcepti
onStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclToSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMe
ssage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFau
lt FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetCacheInvalidationRecordsSince">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSince"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceResponse"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfR
angeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionSt
ateFault_FaultMessage"/>

```



```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatE
xceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ImportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackage"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ImportPackageWithProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/ImportPackageWithProgress"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress ArgumentExceptionFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress ArgumentNullException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress ArgumentOutOfRangeExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress BdcExceptionStateFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress InvalidOperationExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress MetadataExceptionStat
eFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ImportPackageWithProgress PackageFormatExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetImportProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgress"
message="tns:BusinessDataCatalogSharedService GetImportProgress InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgressResponse"
message="tns:BusinessDataCatalogSharedService GetImportProgress OutputMessage"/>
    </wsdl:operation>
  <wsdl:operation name="ExportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackage"
message="tns:BusinessDataCatalogSharedService ExportPackage InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage"/>
  </wsdl:operation>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultM
essage"/>
    </wsdl:operation>
    <wsdl:operation name="GetModelsByName">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByName"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMes
sage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Faul
tMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMes
sage"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_
FaultMessage"/>
                    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fau
ltMessage"/>
                      </wsdl:operation>
                      <wsdl:operation name="GetModelByName">
                        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByName"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InputMessage"/>
                          <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"/>
                            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMes
sage"/>
                              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Fault
Message"/>
                                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelByName ArgumentOutOfRangeExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetModelByName BdcExceptionStateFault FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelsByEntityId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns:BusinessDataCatalogSharedService GetModelsByEntityId InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelsByEntityId ArgumentOutOfRangeException Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeException
Fault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_
FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="AddEntityToModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/AddEntityToModelResponse"
message="tns:BusinessDataCatalogSharedService AddEntityToModel OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel BdcExceptionStateFault FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel MetadataExceptionStateFault Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="RemoveEntityFromModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModel"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelResponse"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionExcepi
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel BdcExceptionStateFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationException
Fault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFau
lt FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteNoCascade">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascade"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeResponse"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentExceptionFault FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentNullExceptionFault Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteNoCascade ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fau
ltMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ModelReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXml"
message="tns:BusinessDataCatalogSharedService ModelReadXml InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService ModelReadXml ArgumentExceptionFault FaultMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService ModelReadXml ArgumentNullExceptionFault FaultMe
ssage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inp
utMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Out
putMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bdc
ExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inv
alidOperationExceptionFault_FaultMessage"/>

```



```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Met
adataExceptionStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemAllAssembliesBytes">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytes"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemDataByLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFa
ult FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionSt
ateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetLobSystemDataByLobSystemId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataException
StateFault_FaultMessage"/>
  </wsdl:operation>

```

```

    <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model ArgumentExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model ArgumentNullExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model ArgumentOutOfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_BdcExceptionStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InvalidOperationExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemByName">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName BdcExceptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName InvalidOperationExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsLikeName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName BdcExceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName InvalidOperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"/>

```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFau
lt_Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdInvalidOperationExceptionFault"
name="InvalidOperationException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntityCount">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCount"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentExceptionFault" name="ArgumentException"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityCount InvalidOperationExceptionFault F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService GetSystemUtilityTypeNameForLobSystem InputMessa
ge"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetSystemUtilityTypeNameForLobSystem ArgumentEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNu
llExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOu
tOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOpe
rationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataEx
ceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GenerateProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem ArgumentExcep
tionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullE
xceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOf
RangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionS
tateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem InvalidOperat
ionExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GenerateProxyAssemblyForLobSystem MetadataExcep
tionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentExcepci
onFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentNullExc
eptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem ArgumentOutOfRa
ngeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem BdcExceptionSta
teFault FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstancesForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExcep
tionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstanceById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```



```

edService/GetLobSystemInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionState
Fault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetDataClassesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystem"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassesForSystem InvalidOperationExceptionExcepti
onFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetDataClassById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassById"
message="tns:BusinessDataCatalogSharedService GetDataClassById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById BdcExceptionStateFault FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesReferencedByModelId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns:BusinessDataCatalogSharedService GetEntitiesReferencedByModelId InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns:BusinessDataCatalogSharedService GetEntitiesReferencedByModelId OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"

```

```

name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStat
eFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptio
nStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"/>
    </wsdl:operation>
  </wsdl:operation>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSta
teFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"

```

```

name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace MetadataExcepti
onStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespace">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionState
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespace InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersion"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Inpu
tMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespaceAndVersion Outpu
tMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespaceAndVersion Argumen
tExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExce
ptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invalid
OperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystem"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeException
nFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFaul
t FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForAssociationAndRole">

```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionSt
ateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcept
ionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetDefaultActionForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>

```

```

    <wsdl:operation name="GetEntityById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityById"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_Fault
Message"/>
    </wsdl:operation>
    <wsdl:operation name="EntityCreate">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreate"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateResponse"
message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMe
ssage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"

```



```

message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Activate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse"
message="tns:BusinessDataCatalogSharedService_Activate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Deactivate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate"
message="tns:BusinessDataCatalogSharedService_Deactivate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse"
message="tns:BusinessDataCatalogSharedService_Deactivate_OutputMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fau
ltMessage"/>
    </wsdl:operation>
    <wsdl:operation name="BulkSwitchActiveOrValidate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidate"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateResponse"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate InvalidOperationExce
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionSta
teFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcepti
onStateFault FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetActionById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionById"
message="tns:BusinessDataCatalogSharedService GetActionById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetActionById MetadataExceptionStateFault Fault
Message"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionParametersForAction">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetIdentifierById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetIdentifiersForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
message="tns:BusinessDataCatalogSharedService_GetMethodById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetMethodByIdResponse"
message="tns:BusinessDataCatalogSharedService GetMethodById OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeException_FaultMessa
ge"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultM
essage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessa
ge"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Fault
Message"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodsForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClass"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass InvalidOperationException
nFault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFa
ult FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="IsMethodInstantiated">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiated"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFau
lt FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFilterDescriptorById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFa
ult_FaultMessage"/>

```



```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExcepi
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFilterDescriptorsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstanceById">

```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CheckPathInMethodInstances">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstances"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/CheckPathInMethodInstancesResponse"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSta
teFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetParametersForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetParametersForMethod"
message="tns:BusinessDataCatalogSharedService GetParametersForMethod InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetParametersForMethod ArgumentExceptionFault F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFau
lt FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionExce
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExcepio
nFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFau
lt FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="IsParameterReferencedByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance InputMess
age"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance OutputMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argumen
tExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argumen
tNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argumen
tOutOfRangeExceptionFault FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcept
ionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataE
xceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessa
ge"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentEx
ceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNu
llExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOu
tOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcepti
onStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataEx
ceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">

```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance InputMe
ssage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance OutputM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance Argumen
tExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExce
ptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invalid
OperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metadat
aExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeException
onFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFau
lt FaultMessage"/>
  </wsdl:operation>

```



```

    <wsdl:operation name="GetRootTypeDescriptorForParameter">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameter"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage
"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExcep
tionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullE
xceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOf
RangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionS
tateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperat
ionExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExcep
tionStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
putMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Ou
tputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Bd
cExceptionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
validOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter Me
tadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputM
essage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Output
Message"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntExceptionFault_FaultMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntNullExceptionFault FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntOutOfRangeExceptionFault FaultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExc
eptionStateFault FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Invali
dOperationExceptionFault FaultMessage"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetChildTypeDescriptorsForTypeDescriptor Metada
taExceptionStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor InputMess
age"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMes
sage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentE
xceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentN
ullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentO
utOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor BdcExcept
ionStateFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor InvalidOp
erationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadateE
xceptionStateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor InputMessage"
/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage
"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentExcep
tionFault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetDefaultValuesForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"

```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor InvalidOperationExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLevelForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault
 FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullException
Fault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExc
eptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFau
lt FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExcep
tionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStat
eFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="TypeDescriptorCreate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreate"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeException
nFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionF
ault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorCreate MetadataExceptionStateFault
FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXml"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml ArgumentNullExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml BdcExceptionStateFault F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml InvalidOperationExceptionExceptio
nFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionSt
ateFault FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorReadXml">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns:BusinessDataCatalogSharedService TypeDescriptorReadXml InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns:BusinessDataCatalogSharedService TypeDescriptorReadXml OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault
 FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionExcepi
onFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFau
lt FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSta
teFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationById"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault Fault
Message"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault F
aultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_Fault
Message"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFau
lt FaultMessage"/>
                  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```



```

edService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationById MetadataExceptionStateFault
FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForEntityAndRole">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"/
>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSta
teFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperatio
nExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcepti
onStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForDataClass">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass ArgumentExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault FaultMessage"/>
  </wsdl:operation>

```

```

    <wsdl:operation name="GetAssociationMembersInRole">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExc
eptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionSt
ateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetThrottlingRules">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRules"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesResponse"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_F
aultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_Fault
Message"/>
    </wsdl:operation>
    <wsdl:operation name="AddThrottlingRule">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRule"
message="tns:BusinessDataCatalogSharedService AddThrottlingRule InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleResponse"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService AddThrottlingRule AccessDeniedExceptionFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService AddThrottlingRule ArgumentNullExceptionFault Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddThrottlingRule BdcExceptionStateFault FaultM
essage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveThrottlingRule">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRule"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleResponse"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveThrottlingRule ArgumentExceptionFault Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveThrottlingRule ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_Fau
ltMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationGroupById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetAssociationGroupById"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById ArgumentExceptionFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById ArgumentNullExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById BdcExceptionStateFault
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById InvalidOperati
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById MetadataExceptionStateF
ault FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetAssociationGroupsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"

```

```

message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionState
Fault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperati
onExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExcepti
onStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Inp
utMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup Out
putMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bdc
ExceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
validOperationExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Met
adataExceptionStateFault FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroup"
message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Inpu
tMessage"/>

```

```

    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outpu
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entOutOfRangeExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcEx
ceptionStateFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inval
idOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Metad
ataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentOutOfRangeExceptionHandler FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionHandler"
name="BdcExceptionHandler"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
BdcExceptionHandler FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationException"
name="InvalidOperationException"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InvalidOperationException FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionHandler"
name="MetadataExceptionHandler"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
MetadataExceptionHandler FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetXmlSchemaForView">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForView"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewResponse"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentExceptionHandler" name="ArgumentExceptionHandler"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionHandler_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentNullException" name="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullException
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeException"
name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewBdcExceptionHandler" name="BdcExceptionHandler"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionHandler_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewInvalidOperationException"
name="InvalidOperationException"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewMetadataExceptionHandler" name="MetadataExceptionHandler"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionHandler
FaultMessage"/>
  </wsdl:operation>
</wsdl:portType>
  <wsdl:binding name="DefaultBinding_BusinessDataCatalogSharedService"
type="tns:BusinessDataCatalogSharedService">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="GetServiceApplicationId">

```



```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetServiceApplicationId" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetAllPartitionIds">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPartitionIds" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
        <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReadSlicedXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ReadSlicedXml" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
        <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="WriteSlicedXml">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/WriteSlicedXml" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
      <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
      <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="HaveRights">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/HaveRights" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNamesForMetadataObjectStruct" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllLocalizedNames">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNames" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPropertiesForMetadataObjectStruct" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllProperties">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllProperties" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveLocalizedName">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveLocalizedName" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>

```

```

</wsdl:operation>
<wsdl:operation name="ClearLocalizedNames">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearLocalizedNames" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveLocalizedName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveLocalizedName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveProperty">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveProperty" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearProperties">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearProperties" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveProperty">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveProperty" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetAccessControlEntries">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAccessControlEntries" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
          <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
          <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
          <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
          <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="SetAccessControlEntries">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetAccessControlEntries" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
          <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
          <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
          <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
          <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
          <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="MetadataObjectCreate">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectCreate" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="Update">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Update" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Delete" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>

```



```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectMergeXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectMergeXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectReadXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectReadXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

```

        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectWriteXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectWriteXml" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildren">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildren" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>

```

```

        <wsdl:fault name="MetadataExceptionStateFault">
          <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildrenForSetting">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildrenForSetting" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
  <wsdl:operation name="CopyAclToSetting">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclToSetting" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
</wsdl:operation name="GetCacheInvalidationRecordsSince">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetCacheInvalidationRecordsSince" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>

```

```

<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="AccessDeniedExceptionFault">
  <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackage">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackage" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackageWithProgress">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackageWithProgress" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetImportProgress">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetImportProgress" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ExportPackage">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ExportPackage" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelById">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelsByName">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByName" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelByName">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelByName" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelsByEntityId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByEntityId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddEntityToModel">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddEntityToModel" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

```

```

        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveEntityFromModel">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveEntityFromModel" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteNoCascade">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteNoCascade" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ModelReadXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ModelReadXml" style="document"/>
    <wsdl:input>

```



```

    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
  <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemProxyAssemblyBytesByLobSystemId" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemAllAssembliesBytes">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemAllAssembliesBytes" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemDataByLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemDataByLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetLobSystemDataByLobSystemId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetLobSystemDataByLobSystemId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemByName">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemByName" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsLikeName">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsLikeName" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityCount">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityCount" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetSystemUtilityTypeNameForLobSystem" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GenerateProxyAssemblyForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GenerateProxyAssemblyForLobSystem" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>

```

```

</wsdl:operation>
<wsdl:operation name="DeleteProxyAssemblyForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteProxyAssemblyForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstancesForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstancesForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstanceById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstanceById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDataClassesForSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassesForSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDataClassById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesReferencedByModelId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesReferencedByModelId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesLikeNameAndNamespace">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesLikeNameAndNamespace" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespace">

```



```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityWithNameAndNamespace" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityWithNameAndNamespaceAndVersion" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesForSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForSystem" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesForAssociationAndRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForAssociationAndRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDefaultActionForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultActionForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

```

```

        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityNameAndNamespacesForAssociationAndRole" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="EntityCreate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/EntityCreate" style="document"/>
    <wsdl:input>

```

```

    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Activate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Activate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Deactivate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Deactivate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```

```

<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="BulkSwitchActiveOrValidate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/BulkSwitchActiveOrValidate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionsForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParameterById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParameterById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">

```

```

        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParametersForAction">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParametersForAction" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifierById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifierById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifiersForEntity">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifiersForEntity" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>

```

```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodsForDataClass">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodsForDataClass" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```



```

    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="IsMethodInstantiated">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsMethodInstantiated" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorsForMethod">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorsForMethod" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodInstanceById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstanceById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodInstancesForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForDataClass" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodInstancesForMethod">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForMethod" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CheckPathInMethodInstances">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CheckPathInMethodInstances" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>

```

```

    <wsdl:operation name="GetParameterById">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParameterById" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetParametersForMethod">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParametersForMethod" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="IsParameterReferencedByMethodInstance">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsParameterReferencedByMethodInstance" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">

```

```

    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeReflectorTypeNameForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeReflectorTypeNameForParameter" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFieldTypeDescriptorsByMethodInstance" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetRootTypeDescriptorForParameter">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetRootTypeDescriptorForParameter" style="document"/>

```

```

<wsdl:input>
  <soap:body use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsByNameAndLevelForParameter" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsForFilterDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDefaultValuesForTypeDescriptor" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">

```



```

        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDefaultValuesForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultValuesForTypeDescriptor" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteDefaultValueForTypeDescriptor" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLevelForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLevelForTypeDescriptor" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>

```

```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorCreate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorCreate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorMergeXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorReadXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorReadXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForEntityAndRole">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForEntityAndRole" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForDataClass" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForMethod">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForMethod" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationMembersInRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationMembersInRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetThrottlingRules">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetThrottlingRules" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddThrottlingRule">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddThrottlingRule" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
        <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveThrottlingRule">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveThrottlingRule" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
        <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupsForEntity">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupsForEntity" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
<wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationReferencesForAssociationGroup" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>

```

```

</wsdl:operation>
<wsdl:operation name="AddAssociationReferenceToAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddAssociationReferenceToAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteAssociationReferenceFromAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetXmlSchemaForView">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetXmlSchemaForView" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```



```

<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage
">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Activate_InputMessage">
  <wsdl:part name="parameters" element="tns:Activate"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage">
  <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Activate_OutputMessage">
  <wsdl:part name="parameters" element="tns:ActivateResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage
">
  <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentExce
ptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>

```

```

    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNull
    ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutO
    fRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcException
    StateFault_FaultMessage">
    <wsdl:part
    xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
    name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage
    ">
    <wsdl:part name="parameters" element="tns:AddAssociationReferenceToAssociationGroup"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOpera
    tionExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExce
    ptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
    element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessag
    e">
    <wsdl:part name="parameters"
    element="tns:AddAssociationReferenceToAssociationGroupResponse"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessa
    ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_Faul
    tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
    xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
    name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_InputMessage">
    <wsdl:part name="parameters" element="tns:AddEntityToModel"/>
  </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddEntityToModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_FaultMess
age">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentNullExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_BdcExceptionStateFault_FaultMessage"
>
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage">
    <wsdl:part name="parameters" element="tns:AddThrottlingRule"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddThrottlingRuleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_Faul
tMessage">

```

```

    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage">
    <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage">
    <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstances"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstancesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns:ClearLocalizedNames"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearLocalizedNamesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:ClearProperties"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildren"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionStateFault
    _FaultMessage">
    <wsdl:part
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
      name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSetting"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperationExcept
    ionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionState
    Fault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
    element="q1:MetadataException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSettingResponse"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_FaultMessa
    ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentNullException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault_Faul
    tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
      name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclToSetting"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault_FaultM
    essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
    element="q4:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_FaultMessa
    ge">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
    element="q1:MetadataException"/>
    </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclToSettingResponse"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_InputMessage">
    <wsdl:part name="parameters" element="tns:Deactivate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeactivateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_InputMessage">
    <wsdl:part name="parameters" element="tns>Delete"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService Delete OutputMessage">
    <wsdl:part name="parameters" element="tns:DeleteResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExce
ptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup InputMe
ssage">
    <wsdl:part name="parameters"
element="tns:DeleteAssociationReferenceFromAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup Invalid
OperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup Metadat
aExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService DeleteAssociationReferenceFromAssociationGroup OutputM
essage">
    <wsdl:part name="parameters"
element="tns:DeleteAssociationReferenceFromAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRange
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateF
ault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns>DeleteDefaultValueForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOperationEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionsS
tateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns>DeleteDefaultValueForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage">
    <wsdl:part name="parameters" element="tns>DeleteNoCascade"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_FaultMe
ssage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage">
      <wsdl:part name="parameters" element="tns>DeleteNoCascadeResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault
_FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExceptionF
ault_FaultMessage">
        <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRangeExce
ptionFault_FaultMessage">
          <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault
_FaultMessage">
            <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage">
              <wsdl:part name="parameters" element="tns>DeleteProxyAssemblyForLobSystem"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExcept
ionFault_FaultMessage">
              <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionState
Fault_FaultMessage">
                <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage">
                  <wsdl:part name="parameters" element="tns>DeleteProxyAssemblyForLobSystemResponse"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessage">
                  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMessage">
                    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
                    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:EntityCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:EntityCreateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_InputMessage">
    <wsdl:part name="parameters" element="tns:ExportPackage"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_OutputMessage">
    <wsdl:part name="parameters" element="tns:ExportPackageResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault
FaultMessage">
      <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
        </wsdl:message>
      <wsdl:message name="BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAccessControlEntries"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault
FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
        </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault_Fa
ultMessage">
        <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
          </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage">
          <wsdl:part name="parameters" element="tns:GetAccessControlEntriesResponse"/>
        </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
        </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage"
>
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
        </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
        </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
        </wsdl:message>
      <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetActionById"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMess
age">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
        </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionParameterById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionParameterByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionParametersForAction"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionParametersForActionResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionsForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage">

```



```

    <wsdl:part name="parameters" element="tns:GetActionsForEntityResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNames"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentEx
ceptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNu
llExceptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOu
tOfRangeExceptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct BdcExcepti
onStateFault FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOperationFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetAllLocalizedNamesForMetadataObjectStructResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPartitionIds"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPartitionIdsResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllProperties"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPropertiesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage">

```

```

    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns:GetAllPropertiesForMetadataObjectStructResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage"
">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage"
">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:part>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupById"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault Fa
ultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupByIdResponse"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntity"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFa
ult FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:part>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationMembersInRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationMembersInRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_BdcExcepti
onStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetAssociationReferencesForAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetAssociationReferencesForAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFaul
t_FaultMessage">

```

```

    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForDataClassResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRole"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRoleResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>

```



```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultM
essage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_F
aultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedException
Fault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeExc
eptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSince"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperationExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExceptionStat
eFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSinceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatExceptionSt
ateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage"
>
    <wsdl:part name="parameters" element="tns:GetChildTypeDescriptorsForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage
">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_ArgumentExceptionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_InputMessage">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor
r_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>

```

```

    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_InputMessage">
      <wsdl:part name="parameters" element="tns:GetDataClassById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultM
essage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMess
age">
      <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetDataClassByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMe
ssage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_Fau
ltMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_FaultMe
ssage">
      <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage">
      <wsdl:part name="parameters" element="tns:GetDataClassesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExceptionFault
_FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault Fa
ultMessage">
      <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetDataClassesForSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFau
lt_FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRole"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExcept
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStat
eFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault FaultMessa
ge">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault Fault
Message">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionF
ault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesLikeNameAndNamespace"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesLikeNameAndNamespaceResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesReferencedByModelId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExcepti
onFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateF
ault FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetEntitiesReferencedByModelIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
>
        <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
          <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
            </wsdl:message>
            <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_InputMessage">
              <wsdl:part name="parameters" element="tns:GetEntityById"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMess
age">
              <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessag
e">
                <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
                </wsdl:message>
                <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_OutputMessage">
                  <wsdl:part name="parameters" element="tns:GetEntityByIdResponse"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage">
                  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessag
e">
                    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
                    </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultM
essage">

```



```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_InputMessage">
      <wsdl:part name="parameters" element="tns:GetEntityCount"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMes
sage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessag
e">
        <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_OutputMessage">
          <wsdl:part name="parameters" element="tns:GetEntityCountResponse"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntExceptionFault_FaultMessage">
          <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntNullExceptionFault_FaultMessage">
            <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntOutOfRangeExceptionFault_FaultMessage">
              <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_BdcExc
eptionStateFault_FaultMessage">
                <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputM
essage">
                  <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRole"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Invali
dOperationExceptionFault_FaultMessage">
                    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
                    </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Metada
taExceptionStateFault_FaultMessage">
                      <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Output
Message">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespace"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
      name="detail" element="q2:BdcExceptionState"/>
    </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceAndVersion"/>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q4:InvalidOperationException"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
      element="q1:MetadataException"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage">
  >
    <wsdl:part name="parameters"
      element="tns:GetEntityWithNameAndNamespaceAndVersionResponse"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q4:ArgumentException"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q4:ArgumentNullException"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q4:ArgumentOutOfRangeException"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
      name="detail" element="q2:BdcExceptionState"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFieldTypeDescriptorsByMethodInstance"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
      element="q4:InvalidOperationException"/>
  </wsdl:part>
  </wsdl:message>
  <wsdl:message
    name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExceptionStateFault_FaultMessage">

```

```

    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns:GetFieldTypeDescriptorsByMethodInstanceResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeException
ionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethod"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptio
nFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFa
ult FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethodResponse"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage"
>
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifierById"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>

```

```

</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetIdentifierByIdResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMe
ssage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_Fau
ltMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFau
lt FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMe
ssage">
  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage">
  <wsdl:part name="parameters" element="tns:GetIdentifiersForEntity"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault
_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault Fa
ultMessage">
  <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetIdentifiersForEntityResponse"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_InputMessage">
  <wsdl:part name="parameters" element="tns:GetImportProgress"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetImportProgressResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_Fault
Message">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_F
aultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionF
ault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_Fault
Message">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage">
      <wsdl:part name="parameters" element="tns:GetLevelForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFau
lt FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_
FaultMessage">
      <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetLevelForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptionFault_
FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFa
ult FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExcep
tionFault FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_
FaultMessage">
      <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage">
      <wsdl:part name="parameters" element="tns:GetLobSystemAllAssembliesBytes"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExcepti
onFault FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateF
ault FaultMessage">

```

```

    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemAllAssembliesBytesResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemById"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemByIdResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage
">

```



```

    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemByName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemByNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystemResponse"/>
  </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultM
essage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_F
aultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNu
llExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExcepti
onStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetLobSystemProxyAssemblyBytesByLobSystemId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemsLikeName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemsLikeNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_B
dcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nputMessage">
    <wsdl:part name="parameters"
element="tns:GetLobSystemsReferencedByEntitiesAssociatedWithModel"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_M
etadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_O
utputMessage">
    <wsdl:part name="parameters"
element="tns:GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_FaultMess
age">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstanceById"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstanceByIdResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptionFault
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForDataClass"/>
</wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperationExcepti
onFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodInstancesForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodsForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodsForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetModelById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetModelByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage"
">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetModelByName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetModelByNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetModelsByEntityId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetModelsByEntityIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetModelsByName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetModelsByNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_Fault
tMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
        </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
          </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_InputMessage">
          <wsdl:part name="parameters" element="tns:GetParameterById"/>
            </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault_FaultM
essage">
            <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
              </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMess
age">
              <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
                </wsdl:message>
              <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_OutputMessage">
                <wsdl:part name="parameters" element="tns:GetParameterByIdResponse"/>
                  </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_FaultMes
sage">
                  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
                    </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_Fault
tMessage">
                    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
                      </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault
t FaultMessage">
                      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
                        </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMes
sage">
                        <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
                          </wsdl:message>
                        <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage">
                          <wsdl:part name="parameters" element="tns:GetParametersForMethod"/>
                            </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetParametersForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFau
lt FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetRootTypeDescriptorForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetRootTypeDescriptorForParameterResponse"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceApplicationId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceApplicationIdResponse"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_FaultMes
sage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_FaultMes
sage">

```

```

    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage">
    <wsdl:part name="parameters" element="tns:GetThrottlingRules"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetThrottlingRulesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentN
ullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_BdcExcept
ionStateFault FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMess
age">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorsByNameAndLevelForParameter"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOp
erationExceptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataE
xceptionStateFault FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMes
sage">
    <wsdl:part name="parameters"
element="tns:GetTypeDescriptorsByNameAndLevelForParameterResponse"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptio
nFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExce
ptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRan
geExceptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStat
eFault FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorsForFilterDescriptor"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperation
ExceptionFault FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetTypeDescriptorsForFilterDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentException
Fault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperatio
nExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameterResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage">
    <wsdl:part name="parameters" element="tns:GetXmlSchemaForView"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetXmlSchemaForViewResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_InputMessage">
    <wsdl:part name="parameters" element="tns:HaveRights"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_OutputMessage">
    <wsdl:part name="parameters" element="tns:HaveRightsResponse"/>

```

```

    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_InputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackage"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_OutputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_Fault
Message">

```

```

    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageWithProgress"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageWithProgressResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage">
    <wsdl:part name="parameters" element="tns:IsMethodInstantiated"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>

```

```

</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage">
  <wsdl:part name="parameters" element="tns:IsMethodInstantiatedResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage">
  <wsdl:part name="parameters" element="tns:IsParameterReferencedByMethodInstance"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptionStateFault_FaultMessage">
  <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage">
  <wsdl:part name="parameters"
element="tns:IsParameterReferencedByMethodInstanceResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage">
  <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
</wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectMergeXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectMergeXmlResponse"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectReadXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectReadXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectWriteXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectWriteXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns:ModelReadXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:ModelReadXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage"
>
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns:ReadSlicedXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:ReadSlicedXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveEntityFromModel"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveEntityFromModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage">

```

```

    <wsdl:part name="parameters" element="tns:RemoveLocalizedName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveLocalizedNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveProperty"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemovePropertyResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_FaultMessa
ge">
      <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage">
          <wsdl:part name="parameters" element="tns:RemoveThrottlingRule"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage">
          <wsdl:part name="parameters" element="tns:RemoveThrottlingRuleResponse"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
>
          <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
            </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMess
age">
            <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
              </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
              <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
                </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
>
                <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
                  </wsdl:message>
                  <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage">
                    <wsdl:part name="parameters" element="tns:SaveLocalizedName"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_Fault
Message">
                    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
                      </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMes
sage">
                      <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
                        </wsdl:message>
                      <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage">
                        <wsdl:part name="parameters" element="tns:SaveLocalizedNameResponse"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage">
                        <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_InputMessage">
    <wsdl:part name="parameters" element="tns:SaveProperty"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_OutputMessage">
    <wsdl:part name="parameters" element="tns:SavePropertyResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntries"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntriesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultActionForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultActionForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorCreateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">

```

```

    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage">
      <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_
FaultMessage">
      <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
        <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage">
          <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXmlResponse"/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFaul
t FaultMessage">
          <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault FaultMess
age">
            <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault Fault
Message">
              <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFault_
FaultMessage">
                <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
                </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault FaultMess
age">
                  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
                  </wsdl:message>
                  <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage">
                    <wsdl:part name="parameters" element="tns:TypeDescriptorReadXml"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptionFault_F
aultMessage">
                    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
                    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorReadXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Update_InputMessage">
    <wsdl:part name="parameters" element="tns:Update"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Update_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentNullException"/>

```

```

    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_M
essage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns:WriteSlicedXml"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q4="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q4:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q1="Microsoft.BusinessData.SharePoint" name="detail"
element="q1:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:WriteSlicedXmlResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
</wsdl:definitions>

```

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	q2	7.1
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	tns1	7.2
http://www.microsoft.com/Office/2009/BusinessDataCatalog	tns	7.3
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	tns2	7.4
Microsoft.BusinessData.SharePoint	q1	7.5
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific	tns3	7.6
http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants	tns4	7.7
Microsoft.SharePoint.BusinessData	q5	7.8
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q9	7.9
http://schemas.microsoft.com/2003/10/Serialization/	ser	7.10
http://schemas.datacontract.org/2004/07/System	q4	7.11

For ease of implementation, the following sections provide the full XML schema for this protocol.

7.1 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="AccessDeniedException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:BdcException"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AccessDeniedException" nillable="true" type="q2:AccessDeniedException"/>
  <xs:complexType name="BdcException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q4="http://schemas.datacontract.org/2004/07/System"
        base="q4:Exception"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="BdcException" nillable="true" type="q2:BdcException"/>
  <xs:complexType name="BdcExceptionState">
    <xs:sequence>
      <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
        type="xs:string"/>
      <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
        type="xs:string"/>
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

```

    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="BdcExceptionState" nillable="true" type="q2:BdcExceptionState"/>
<xs:complexType name="AccessDeniedExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension base="q2:BdcExceptionState">
      <xs:sequence>
        <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="AccessDeniedExceptionState" nillable="true"
type="q2:AccessDeniedExceptionState"/>
<xs:simpleType name="BdcRights">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Execute"/>
        <xs:enumeration value="Edit"/>
        <xs:enumeration value="SetPermissions"/>
        <xs:enumeration value="UseInBusinessDataInLists"/>
        <xs:enumeration value="SelectableInClients"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="BdcRights" nillable="true" type="q2:BdcRights"/>
</xs:schema>

```

7.2 <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel> Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="SystemType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Database"/>
      <xs:enumeration value="WebService"/>
      <xs:enumeration value="Custom"/>
      <xs:enumeration value="Wcf"/>
      <xs:enumeration value="DotNetAssembly"/>
      <xs:enumeration value="OData"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SystemType" nillable="true" type="tns1:SystemType"/>
  <xs:simpleType name="MethodInstanceType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Finder"/>
      <xs:enumeration value="SpecificFinder"/>
      <xs:enumeration value="GenericInvoker"/>
      <xs:enumeration value="IdEnumerator"/>
      <xs:enumeration value="Scalar"/>
      <xs:enumeration value="AccessChecker"/>
      <xs:enumeration value="Creator"/>
      <xs:enumeration value="Updater"/>
    </xs:restriction>
  </xs:simpleType>

```

```

    <xs:enumeration value="Deleter"/>
    <xs:enumeration value="ChangedIdEnumerator"/>
    <xs:enumeration value="DeletedIdEnumerator"/>
    <xs:enumeration value="AssociationNavigator"/>
    <xs:enumeration value="Associator"/>
    <xs:enumeration value="Disassociator"/>
    <xs:enumeration value="StreamAccessor"/>
    <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
    <xs:enumeration value="BulkSpecificFinder"/>
    <xs:enumeration value="BulkAssociatedIdEnumerator"/>
    <xs:enumeration value="BulkAssociationNavigator"/>
    <xs:enumeration value="BulkIdEnumerator"/>
    <xs:enumeration value="EventSubscriber"/>
    <xs:enumeration value="EventUnsubscriber"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="MethodInstanceType" nillable="true" type="tns1:MethodInstanceType"/>
<xs:simpleType name="FilterType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Comparison"/>
    <xs:enumeration value="LastId"/>
    <xs:enumeration value="Limit"/>
    <xs:enumeration value="PageNumber"/>
    <xs:enumeration value="Password"/>
    <xs:enumeration value="SsoTicket"/>
    <xs:enumeration value="Timestamp"/>
    <xs:enumeration value="UserContext"/>
    <xs:enumeration value="Username"/>
    <xs:enumeration value="UserProfile"/>
    <xs:enumeration value="Wildcard"/>
    <xs:enumeration value="Input"/>
    <xs:enumeration value="Output"/>
    <xs:enumeration value="InputOutput"/>
    <xs:enumeration value="Batching"/>
    <xs:enumeration value="BatchingTermination"/>
    <xs:enumeration value="UserCulture"/>
    <xs:enumeration value="ActivityId"/>
    <xs:enumeration value="Sorting"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="FilterType" nillable="true" type="tns1:FilterType"/>
<xs:simpleType name="TypeDescriptorFlags">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="CreatorField"/>
        <xs:enumeration value="UpdaterField"/>
        <xs:enumeration value="PreUpdaterField"/>
        <xs:enumeration value="IsCollection"/>
        <xs:enumeration value="ReadOnly"/>
        <xs:enumeration value="Significant"/>
        <xs:enumeration value="IsSortInput"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="TypeDescriptorFlags" nillable="true" type="tns1:TypeDescriptorFlags"/>
<xs:simpleType name="DirectionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="In"/>
    <xs:enumeration value="Out"/>
    <xs:enumeration value="InOut"/>
    <xs:enumeration value="Return"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="DirectionType" nillable="true" type="tns1:DirectionType"/>
</xs:schema>

```

7.3 http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
  <xs:element name="GetServiceApplicationId">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceApplicationIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllPartitionIds">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllPartitionIdsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q9:ArrayOfguid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReadSlicedXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReadSlicedXmlResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

```

<xs:element name="WriteSlicedXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="WriteSlicedXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="HaveRights">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="q2:BdcRights"/>
      <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="HaveRightsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNames">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesResponse">

```

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="q5:ArrayOfLocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStruct">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
type="q5:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllProperties">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="q5:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedName">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedNameResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="ClearLocalizedNames">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>

```



```

</xs:element>
<xs:element name="ClearLocalizedNamesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedName">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedNameResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="SaveProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="q5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SavePropertyResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="ClearProperties">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearPropertiesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemovePropertyResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetAccessControlEntries">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetAccessControlEntriesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAccessControlEntriesResult" nillable="true"
type="q5:ArrayOfAccessControlEntryStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetAccessControlEntries">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="q5:ArrayOfAccessControlEntryStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetAccessControlEntriesResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectCreate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectCreateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Update">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Delete">
    <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="DeleteResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectMergeXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectMergeXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectWriteXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

```

```

</xs:element>
<xs:element name="MetadataObjectWriteXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildren">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenForSetting">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenForSettingResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclToSetting">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclToSettingResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSince">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSinceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetCacheInvalidationRecordsSinceResult" nillable="true"
type="q5:ArrayOfCacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ImportPackage">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
        <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ImportPackageResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="q5:ModelStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="q5:AdministrationMetadataCatalogStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
            <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="q5:ModelStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetImportProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetImportProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ExportPackageResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="ExportPackageResult" nillable="true"
type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="q5:ModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByName">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByNameResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="q5:ArrayOfModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelByName">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelByNameResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="q5:ModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByEntityId">
    <xs:complexType>

```

```

        <xs:sequence>
          <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
          <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetModelsByEntityIdResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="q5:ArrayOfModelStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddEntityToModel">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddEntityToModelResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveEntityFromModel">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveEntityFromModelResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteNoCascade">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteNoCascadeResponse">
      <xs:complexType>
        <xs:sequence/>
      </xs:complexType>
    </xs:element>
    <xs:element name="ModelReadXml">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
          <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="q5:MetadataObjectStruct"/>
          <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
          <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="ModelReadXmlResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="q5:ModelStruct"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
nillable="true" type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemAllAssembliesBytes">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemAllAssembliesBytesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
type="q9:ArrayOfbase64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemDataByLobSystem">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemDataByLobSystemResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetLobSystemDataByLobSystemId">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"

```



```

minOccurs="0" name="proxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
  <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SetLobSystemDataByLobSystemIdResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="0" name="queryMode"
type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsLikeName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsLikeNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="q5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemById">

```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetEntityCount">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetEntityCountResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSystemUtilityTypeNameForLobSystem">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSystemUtilityTypeNameForLobSystemResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult"
nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GenerateProxyAssemblyForLobSystem">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GenerateProxyAssemblyForLobSystemResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteProxyAssemblyForLobSystem">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

</xs:element>
<xs:element name="DeleteProxyAssemblyForLobSystemResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstancesForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstancesForLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="q5:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstanceById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstanceByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="q5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassesForSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassesForSystemResult" nillable="true" type="q5:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element name="GetDataClassByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="q5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="0" name="mode"
type="tns4:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesReferencedByModelIdResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesLikeNameAndNamespaceResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersion">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q4:Version"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForAssociationAndRoleResult" nillable="true" type="q5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetDefaultActionForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
      <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="SetDefaultActionForEntityResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="namespaces" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="names" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="EntityCreate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:EntityStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="EntityCreateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="EntityCreateResult" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Activate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="ActivateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ActivateResult" nillable="true" type="q5:EntityStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Deactivate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeactivateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="q5:EntityStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BulkSwitchActiveOrValidate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
        <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="q5:ModelStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BulkSwitchActiveOrValidateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="BulkSwitchActiveOrValidateResult" nillable="true"
type="q5:ArrayOfActivationErrorRecordStruct"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="q5:ArrayOfEntityStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="q5:ActionStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionsForEntity">
    <xs:complexType>
      <xs:sequence>

```

```

        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntityResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionsForEntityResult" nillable="true" type="q5:ArrayOfActionStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="q5:ActionParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParametersForAction">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParametersForActionResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParametersForActionResult" nillable="true"
type="q5:ArrayOfActionParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifierById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifierByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="q5:IdentifierStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifiersForEntity">

```



```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetIdentifiersForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="q5:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="q5:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="q5:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiated">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiatedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorById">
  <xs:complexType>

```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="q5:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="q5:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstanceById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstanceByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForDataClassResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element name="GetMethodInstancesForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstances">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="dottedPath" nillable="true" type="xs:string"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="type" type="tns1:MethodInstanceType"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstancesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParameterById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParameterByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethodResponse">
  <xs:complexType>

```

```

    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="q5:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstance">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstanceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameter">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameterResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFieldTypeDescriptorsByMethodInstance">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetRootTypeDescriptorForParameterResult" nillable="true"
type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="level" type="xs:int"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeDescriptorsForFilterDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeDescriptorsForFilterDescriptorResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetDefaultValuesForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
type="q5:ArrayOfDefaultValueStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDefaultValuesForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="defaultValueStruct" nillable="true" type="q5:DefaultValueStruct"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteDefaultValueForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteDefaultValueForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="GetLevelForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLevelForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="q5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorMergeXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packgeContents" type="q5:PackageContents"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorMergeXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorMergeXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

<xs:element name="TypeDescriptorReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="q5:TypeDescriptorStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="q5:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForEntityAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForEntityAndRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForEntityAndRoleResult" nillable="true"
type="q5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

    </xs:complexType>
  </xs:element>
  <xs:element name="GetAssociationsForDataClassResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAssociationsForMethod">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAssociationsForMethodResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="q5:ArrayOfAssociationStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAssociationMembersInRole">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAssociationMembersInRoleResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="q5:ArrayOfAssociationMemberStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetThrottlingRules">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetThrottlingRulesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetThrottlingRulesResult" nillable="true" type="q5:ArrayOfSafetyNetStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddThrottlingRule">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="q5:SafetyNetStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddThrottlingRuleResponse">
    <xs:complexType>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveThrottlingRule">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="safetyNetStruct" nillable="true" type="q5:SafetyNetStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveThrottlingRuleResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupByIdResult" nillable="true" type="q5:AssociationGroupStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntity">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntityResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="q5:ArrayOfAssociationGroupStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroup">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroupResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="q5:ArrayOfAssociationReferenceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationGroupStruct" nillable="true" type="q5:AssociationGroupStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
type="q5:AssociationGroupStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteAssociationReferenceFromAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="q5:AssociationReferenceStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetXmlSchemaForView">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetXmlSchemaForViewResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>

```

7.4 <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="CacheUsage">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Default"/>
    </xs:restriction>
  </xs:simpleType>

```

```

        <xs:enumeration value="Online"/>
        <xs:enumeration value="Cached"/>
        <xs:enumeration value="Offline"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="CacheUsage" nillable="true" type="tns2:CacheUsage"/>
<xs:complexType name="ProxyGenerationResult">
    <xs:sequence>
        <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ProxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
</xs:schema>

```

7.5 Microsoft.BusinessData.SharePoint Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q1="Microsoft.BusinessData.SharePoint" elementFormDefault="qualified"
targetNamespace="Microsoft.BusinessData.SharePoint"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="MetadataException">
        <xs:sequence>
            <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
            <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string"/>
            <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string"/>
            <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string"/>
            <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="MetadataException" nillable="true" type="q1:MetadataException"/>
</xs:schema>

```

7.6 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecifi
c" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:simpleType name="ThrottleScope">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Global"/>
            <xs:enumeration value="Database"/>
            <xs:enumeration value="WebService"/>
            <xs:enumeration value="Wcf"/>
            <xs:enumeration value="Custom"/>
            <xs:enumeration value="OData"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="ThrottleScope" nillable="true" type="tns3:ThrottleScope"/>
    <xs:simpleType name="ThrottleType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="None"/>
            <xs:enumeration value="Items"/>
            <xs:enumeration value="Size"/>
            <xs:enumeration value="Connections"/>
        </xs:restriction>
    </xs:simpleType>

```

```

    <xs:enumeration value="Timeout"/>
    <xs:enumeration value="MetadataSize"/>
    <xs:enumeration value="ModelSize"/>
    <xs:enumeration value="MaxNumberOfModels"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="ThrottleType" nillable="true" type="tns3:ThrottleType"/>
</xs:schema>

```

7.7 <http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants> Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllLobSystemsInModel"/>
      <xs:enumeration value="OwnedLobSystemsInModel"/>
      <xs:enumeration value="SharedLobSystemsInModel"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true"
  type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
  <xs:simpleType name="EntityConstants.EntitiesInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllEntitiesInModel"/>
      <xs:enumeration value="OwnedEntitiesInModel"/>
      <xs:enumeration value="SharedEntitiesInModel"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true"
  type="tns4:EntityConstants.EntitiesInModelQuery"/>
</xs:schema>

```

7.8 [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q5="Microsoft.SharePoint.BusinessData"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  elementFormDefault="qualified" targetNamespace="Microsoft.SharePoint.BusinessData"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
  <xs:import
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
  <xs:import
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:import namespace="Microsoft.BusinessData.SharePoint" />
  <xs:complexType name="ExceededMetadataObjectLimitExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
        <xs:sequence>
          <xs:element minOccurs="0" name="Limit" type="xs:int"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

```

```

<xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true"
type="q5:ExceededMetadataObjectLimitExceptionState"/>
<xs:complexType name="MetadataObjectNotFoundExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="MetadataObjectNotFoundExceptionState" nillable="true"
type="q5:MetadataObjectNotFoundExceptionState"/>
<xs:complexType name="DuplicateMetadataObjectExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="DuplicateMetadataObjectExceptionState" nillable="true"
type="q5:DuplicateMetadataObjectExceptionState"/>
<xs:complexType name="ConcurrentModificationExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ConcurrentModificationExceptionState" nillable="true"
type="q5:ConcurrentModificationExceptionState"/>
<xs:complexType name="InvalidMetadataObjectExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidFieldName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="InvalidMetadataObjectExceptionState" nillable="true"
type="q5:InvalidMetadataObjectExceptionState"/>
<xs:complexType name="InvalidMetadataPropertyExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="InvalidMetadataPropertyExceptionState" nillable="true"
type="q5:InvalidMetadataPropertyExceptionState"/>
<xs:simpleType name="PackageContents">
  <xs:list>

```

```

    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Model"/>
        <xs:enumeration value="LocalizedNames"/>
        <xs:enumeration value="Permissions"/>
        <xs:enumeration value="Properties"/>
        <xs:enumeration value="InlineProxies"/>
        <xs:enumeration value="All"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="PackageContents" nillable="true" type="q5:PackageContents"/>
<xs:complexType name="MetadataObjectStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
    <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="MetadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
<xs:complexType name="ActionStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
        <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ActionStruct" nillable="true" type="q5:ActionStruct"/>
<xs:complexType name="LobSystemStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="systemType" type="tns1:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="LobSystemStruct" nillable="true" type="q5:LobSystemStruct"/>
<xs:complexType name="MethodInstanceStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="MethodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
<xs:complexType name="AssociationStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MethodInstanceStruct">
      <xs:sequence>

```

```

        <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="AssociationStruct" nillable="true" type="q5:AssociationStruct"/>
<xs:complexType name="LobSystemInstanceStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="LobSystemInstanceStruct" nillable="true"
type="q5:LobSystemInstanceStruct"/>
<xs:complexType name="ActionParameterStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ActionParameterStruct" nillable="true" type="q5:ActionParameterStruct"/>
<xs:complexType name="AdministrationMetadataCatalogStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AdministrationMetadataCatalogStruct" nillable="true"
type="q5:AdministrationMetadataCatalogStruct"/>
<xs:complexType name="AssociationGroupStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNames" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationIds" nillable="true" type="q9:ArrayOfunsignedInt"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationNames" nillable="true" type="q9:ArrayOfstring"/>
                <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AssociationGroupStruct" nillable="true"
type="q5:AssociationGroupStruct"/>
<xs:complexType name="DataClassStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="active" type="xs:boolean"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```



```

        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
        <xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q4:Version"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="DataClassStruct" nillable="true" type="q5:DataClassStruct"/>
<xs:complexType name="EntityStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:DataClassStruct">
            <xs:sequence>
                <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
                <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
                <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="EntityStruct" nillable="true" type="q5:EntityStruct"/>
<xs:complexType name="FilterDescriptorStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="FilterDescriptorStruct" nillable="true"
type="q5:FilterDescriptorStruct"/>
<xs:complexType name="IdentifierStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
                <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="IdentifierStruct" nillable="true" type="q5:IdentifierStruct"/>
<xs:complexType name="TypeDescriptorStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="q5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="associationReferenceEntityNamespace"
nillable="true" type="xs:string"/>
                <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
                <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
                <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
                <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
                <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
    <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="TypeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
<xs:complexType name="MethodStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="MethodStruct" nillable="true" type="q5:MethodStruct"/>
<xs:complexType name="ModelStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ModelStruct" nillable="true" type="q5:ModelStruct"/>
<xs:complexType name="ParameterStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ParameterStruct" nillable="true" type="q5:ParameterStruct"/>
<xs:complexType name="PackageFormatExceptionState">
  <xs:sequence>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q9:ArrayOfstring"/>
    <xs:element xmlns:q1="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="q1:MetadataException"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="PackageFormatExceptionState" nillable="true"
type="q5:PackageFormatExceptionState"/>
<xs:complexType name="ArrayOfLocalizedNameStruct">
  <xs:sequence>

```

```

    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="q5:LocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>
  <xs:element name="ArrayOfLocalizedNameStruct" nillable="true"
type="q5:ArrayOfLocalizedNameStruct"/>
  <xs:complexType name="LocalizedNameStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="vlu" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="LocalizedNameStruct" nillable="true" type="q5:LocalizedNameStruct"/>
  <xs:complexType name="ArrayOfPropertyStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="q5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfPropertyStruct" nillable="true" type="q5:ArrayOfPropertyStruct"/>
  <xs:complexType name="PropertyStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:ComplexValueStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="PropertyStruct" nillable="true" type="q5:PropertyStruct"/>
  <xs:complexType name="ComplexValueStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
      <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true"
type="xs:anyType"/>
      <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName"
nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ComplexValueStruct" nillable="true" type="q5:ComplexValueStruct"/>
  <xs:complexType name="DefaultValueStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:ComplexValueStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="DefaultValueStruct" nillable="true" type="q5:DefaultValueStruct"/>
  <xs:complexType name="ArrayOfAccessControlEntryStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="q5:AccessControlEntryStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAccessControlEntryStruct" nillable="true"
type="q5:ArrayOfAccessControlEntryStruct"/>
  <xs:complexType name="AccessControlEntryStruct">

```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="principalBinaryForm" nillable="true"
type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="principalDisplayName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="AccessControlEntryStruct" nillable="true"
type="q5:AccessControlEntryStruct"/>
  <xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="q5:CacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true"
type="q5:ArrayOfCacheInvalidationRecordStruct"/>
  <xs:complexType name="CacheInvalidationRecordStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
      <xs:element minOccurs="0" name="counter" type="xs:int"/>
      <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="CacheInvalidationRecordStruct" nillable="true"
type="q5:CacheInvalidationRecordStruct"/>
  <xs:complexType name="ArrayOfModelStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="q5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfModelStruct" nillable="true" type="q5:ArrayOfModelStruct"/>
  <xs:complexType name="ArrayOfLobSystemStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="q5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfLobSystemStruct" nillable="true"
type="q5:ArrayOfLobSystemStruct"/>
  <xs:complexType name="ArrayOfLobSystemInstanceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="q5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true"
type="q5:ArrayOfLobSystemInstanceStruct"/>
  <xs:complexType name="ArrayOfDataClassStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="q5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfDataClassStruct" nillable="true"
type="q5:ArrayOfDataClassStruct"/>
  <xs:complexType name="ArrayOfEntityStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="q5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfEntityStruct" nillable="true" type="q5:ArrayOfEntityStruct"/>
  <xs:complexType name="ArrayOfActivationErrorRecordStruct">
    <xs:sequence>

```

```

        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="q5:ActivationErrorRecordStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true"
type="q5:ArrayOfActivationErrorRecordStruct"/>
<xs:complexType name="ActivationErrorRecordStruct">
    <xs:sequence>
        <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingEntityVersion" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingMethodName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingParameterName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
        <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true"
type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ActivationErrorRecordStruct" nillable="true"
type="q5:ActivationErrorRecordStruct"/>
<xs:complexType name="ArrayOfActionStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="q5:ActionStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActionStruct" nillable="true" type="q5:ArrayOfActionStruct"/>
<xs:complexType name="ArrayOfActionParameterStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="q5:ActionParameterStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfActionParameterStruct" nillable="true"
type="q5:ArrayOfActionParameterStruct"/>
<xs:complexType name="ArrayOfIdentifierStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="q5:IdentifierStruct"/>
    </xs:sequence>
</xs:complexType>

```

```

    <xs:element name="ArrayOfIdentifierStruct" nillable="true"
type="q5:ArrayOfIdentifierStruct"/>
    <xs:complexType name="ArrayOfMethodStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
type="q5:MethodStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfMethodStruct" nillable="true" type="q5:ArrayOfMethodStruct"/>
    <xs:complexType name="ArrayOfFilterDescriptorStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="q5:FilterDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfFilterDescriptorStruct" nillable="true"
type="q5:ArrayOfFilterDescriptorStruct"/>
    <xs:complexType name="ArrayOfMethodInstanceStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="q5:MethodInstanceStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfMethodInstanceStruct" nillable="true"
type="q5:ArrayOfMethodInstanceStruct"/>
    <xs:complexType name="ArrayOfParameterStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="q5:ParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfParameterStruct" nillable="true"
type="q5:ArrayOfParameterStruct"/>
    <xs:complexType name="ArrayOfTypeDescriptorStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="q5:TypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfTypeDescriptorStruct" nillable="true"
type="q5:ArrayOfTypeDescriptorStruct"/>
    <xs:complexType name="ArrayOfDefaultValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct"
nillable="true" type="q5:DefaultValueStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfDefaultValueStruct" nillable="true"
type="q5:ArrayOfDefaultValueStruct"/>
    <xs:complexType name="ArrayOfAssociationStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct"
nillable="true" type="q5:AssociationStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfAssociationStruct" nillable="true"
type="q5:ArrayOfAssociationStruct"/>
    <xs:complexType name="ArrayOfAssociationMemberStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="q5:AssociationMemberStruct"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfAssociationMemberStruct" nillable="true"
type="q5:ArrayOfAssociationMemberStruct"/>
    <xs:complexType name="AssociationMemberStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>

```

```

    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="AssociationMemberStruct" nillable="true"
type="q5:AssociationMemberStruct"/>
  <xs:complexType name="ArrayOfSafetyNetStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true"
type="q5:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
<xs:element name="ArrayOfSafetyNetStruct" nillable="true"
type="q5:ArrayOfSafetyNetStruct"/>
  <xs:complexType name="SafetyNetStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
      <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
      <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
      <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
      <xs:element
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
minOccurs="0" name="throttleScope" type="tns3:ThrottleScope"/>
      <xs:element
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
minOccurs="0" name="throttleType" type="tns3:ThrottleType"/>
    </xs:sequence>
  </xs:complexType>
<xs:element name="SafetyNetStruct" nillable="true" type="q5:SafetyNetStruct"/>
<xs:complexType name="ArrayOfAssociationGroupStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="q5:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAssociationGroupStruct" nillable="true"
type="q5:ArrayOfAssociationGroupStruct"/>
  <xs:complexType name="ArrayOfAssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="q5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
<xs:element name="ArrayOfAssociationReferenceStruct" nillable="true"
type="q5:ArrayOfAssociationReferenceStruct"/>
  <xs:complexType name="AssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="_associationName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="entityNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
      <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
<xs:element name="AssociationReferenceStruct" nillable="true"
type="q5:AssociationReferenceStruct"/>
</xs:schema>

```

7.9 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<xs:schema xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="q9:ArrayOfguid"/>
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="q9:ArrayOfstring"/>
  <xs:complexType name="ArrayOfunsignedInt">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedInt" nillable="true" type="q9:ArrayOfunsignedInt"/>
  <xs:complexType name="ArrayOfbase64Binary">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfbase64Binary" nillable="true" type="q9:ArrayOfbase64Binary"/>
</xs:schema>

```

7.10 http://schemas.microsoft.com/2003/10/Serialization/ Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="ser:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="ser:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">

```



```

        <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
        <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
        <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="ser:guid"/>
<xs:simpleType name="guid">
    <xs:restriction base="xs:string">
        <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
    </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName"/>
<xs:attribute name="Id" type="xs:ID"/>
<xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>

```

7.11 http://schemas.datacontract.org/2004/07/System Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q4="http://schemas.datacontract.org/2004/07/System"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/">
    <xs:complexType name="Exception">
        <xs:sequence>
            <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
processContents="skip"/>
        </xs:sequence>
        <xs:attribute ref="ser:FactoryType"/>
    </xs:complexType>
    <xs:element name="Exception" nillable="true" type="q4:Exception"/>
    <xs:complexType name="InvalidOperationException">
        <xs:complexContent mixed="false">
            <xs:extension base="q4:SystemException"/>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="InvalidOperationException" nillable="true"
type="q4:InvalidOperationException"/>
    <xs:complexType name="SystemException">
        <xs:complexContent mixed="false">
            <xs:extension base="q4:Exception"/>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="SystemException" nillable="true" type="q4:SystemException"/>
    <xs:complexType name="Version">
        <xs:sequence>
            <xs:element name="Build" type="xs:int"/>
            <xs:element name="_Major" type="xs:int"/>
            <xs:element name="_Minor" type="xs:int"/>
            <xs:element name="_Revision" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="Version" nillable="true" type="q4:Version"/>
    <xs:complexType name="ArgumentNullException">
        <xs:complexContent mixed="false">
            <xs:extension base="q4:ArgumentException"/>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="ArgumentNullException" nillable="true" type="q4:ArgumentNullException"/>
    <xs:complexType name="ArgumentException">
        <xs:complexContent mixed="false">
            <xs:extension base="q4:SystemException"/>
        </xs:complexContent>
    </xs:complexType>

```

```
<xs:element name="ArgumentException" nillable="true" type="q4:ArgumentException"/>
<xs:complexType name="ArgumentOutOfRangeException">
  <xs:complexContent mixed="false">
    <xs:extension base="q4:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentOutOfRangeException" nillable="true"
type="q4:ArgumentOutOfRangeException"/>
</xs:schema>
```

8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Microsoft SharePoint Foundation 2010
- Microsoft SharePoint Foundation 2013
- Microsoft SharePoint Server 2016
- Microsoft SharePoint Server 2019

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

[<1> Section 2.2.4](#): SharePoint Foundation 2010 requires that **Business Logic Modules** conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the Microsoft .NET Framework.

[<2> Section 2.2.4.4](#): In SharePoint Foundation 2010, only the restriction that the **index** value be greater than or equal to zero is enforced.

[<3> Section 2.2.4.4](#): In SharePoint Foundation 2010, this restriction is not enforced.

[<4> Section 2.2.4.21](#): SharePoint Foundation 2010 sets the values to zero on return.

[<5> Section 2.2.4.22](#): SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the **_associationName** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input **_associationName**.

[<6> Section 2.2.4.22](#): SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the **_entityName** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input **_entityName**.

[<7> Section 2.2.4.22](#): SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the **_entityNamespace** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input **_entityNamespace**.

[<8> Section 2.2.4.41](#): In SharePoint Foundation 2010, this can be other values.

[<9> Section 2.2.4.51](#): SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

[<10> Section 2.2.4.53](#): In SharePoint Foundation 2010, when a new **TypeDescriptor** is created with the **MetadataObjectCreate** operation, the server sets this element to NULL on return.

SerializedRules can be set to a non-null value using the **Update** operation or the **MetadataObjectReadXml** operation.

<11> [Section 2.2.4.53](#): The culture names used by SharePoint Foundation 2010 are as specified in [\[MSDN-SharePointSDK\]](#).

<12> [Section 2.2.4.53](#): SharePoint Foundation 2010 requires this data type to conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and to be understood by the .NET Framework.

<13> [Section 2.2.4.53](#): SharePoint Foundation 2010 requires that the data type to conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<14> [Section 2.2.4.53](#): The SharePoint Foundation 2010 module that performs the mapping of value of the **typeName** element to data types requires the value of the **typeName** element to be in the following format expressed in ABNF, as specified in [\[RFC5234\]](#):

```
Value = TypeName *1(%x2C BusinessLogicModule)
BusinessLogicModule = FullAssemblyName / LobSystemName
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section [2.2.1.3](#).

TypeName: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework. The format is as specified in [MS-NRTP] section [2.2.1.2](#).

LobSystemName: The name of the **LobSystem** that contains the **TypeDescriptor**.

The occurrence of the **BusinessLogicModule** element is required by SharePoint Foundation 2010 to yield to a **LobSystemName** element if the represented data type resides in the Business Logic Module associated with the **LobSystem** that contains the **TypeDescriptor**. Otherwise, the occurrence of **BusinessLogicModule** is required by SharePoint Foundation 2010 to be a **FullAssemblyName** element. The values for the **TypeName** specified in the following table do not require a **BusinessLogicModule**.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from 0 through 65,535.
System.UInt32	A number in the range from 0 through 4,294,967,295.
System.UInt64	A number in the range from 0 through 18,446,744,073,709,551,615.

Value	Description
System.DateTime	A date and time in the range from midnight, January 1, 1 A.D. through 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds.
System.TimeSpan	A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds.
System.Single	A single-precision number in the range from - 3.402823e38 through 3.402823e38.
System.Double	A double-precision number in the range from - 1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN.
System.Decimal	A number in the range from - 79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from 0 through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A GUID .
System.Boolean	A bit.
System.Uri	A Uniform Resource Locator (URL) .

<15> [Section 2.2.5.7](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<16> [Section 3.1](#): SharePoint Foundation 2010 does this for some requests from untrusted sources.

<17> [Section 3.1](#): SharePoint Foundation 2010 does this for some requests from highly-trusted sources.

<18> [Section 3.1.4](#): In SharePoint Foundation 2010 implementation, the protocol client specifies the last known values for these elements. The protocol server uses the specified values to construct error messages and other informational messages.

<19> [Section 3.1.4](#): In SharePoint Foundation 2010, the implementation-specific maximum value is 2147483646.

<20> [Section 3.1.4](#): In SharePoint Foundation 2010, when the specific **metadataObject** name or namespace field is updated, the object version is incremented by 2. When the **Entity** name or namespace is updated, the server will return an **Entity** object with the version incremented by 1, but the **Entity** object version is incremented by 2 in the server database. If the **BulkSwitchActiveOrValidate** operation is called to make an **entity** active and the specific **entity** is already active, its object version will be incremented by 2.

<21> [Section 3.1.4](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<22> [Section 3.1.4](#): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<23> [Section 3.1.4](#): In SharePoint Foundation 2010, this operation returns zero **TypeDescriptors**.

<24> [Section 3.1.4](#): The behavior is identified by the specific implementation of the custom code that handles **LobSystem** data, and is not understood by the protocol server implementation.

<25> [Section 3.1.4](#): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and are understood by the .NET Framework.

<26> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystemInstance** to determine if the security principal is authorized to read the **LobSystemInstance**.

<27> [Section 3.1.4](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<28> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

<29> [Section 3.1.4](#): SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

<30> [Section 3.1.4](#): In SharePoint Foundation 2010, if the specified **MetadataObject** is Action, the server will ignore the **entityId** specified by the client and set its value to the id of the input **parentStruct**.

<31> [Section 3.1.4](#): In SharePoint Foundation 2010, if there is an error in the input XML, the server will return an error to the client, but some **MetadataObjects** that had been created before encountering the error could still exist.

<32> [Section 3.1.4](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<33> [Section 3.1.4](#): SharePoint Foundation 2010 does not enforce the specified **MetadataObject** to be a **Model** or an **LobSystem**.

<34> [Section 3.1.4.2.2.2](#): In SharePoint Foundation 2010, when the **AddAssociationReferenceToAssociationGroup** operation completes successfully, the returned **associationGroupId** element of the **associationReference** structure is the same as the returned **id** element of the **associationReference** structure. However, the **associationGroupId** element of the **associationReference** structure stored on the server is the same as the **id** element of the **AssociationGroup** that contains this **AssociationReference** structure.

<35> [Section 3.1.4.5.2.1](#): In SharePoint Foundation 2010, when the **BulkSwitchActiveOrValidate** operation cannot be performed because the value of the validate element is set to "false" and the protocol server encountered reference errors (as specified in section 3.1.4.5.3.2) when performing this operation, the active fields of the **Entities** returned by the **BulkSwitchActiveOrValidate** operation are updated to TRUE, but the active fields of the **Entities** stored on the server are not changed by this operation.

<36> [Section 3.1.4.5.3.2](#): SharePoint Foundation 2010 does not return this error for this condition.

<37> [Section 3.1.4.5.3.2](#): In this case, SharePoint Foundation 2010 does not return an error.

<38> [Section 3.1.4.5.3.2](#): In this case, SharePoint Foundation 2010 does not return an error.

<39> [Section 3.1.4.13](#): In SharePoint Foundation 2010, the **Method** will not be deleted when this operation does not execute successfully and the server throws a **ConcurrentModificationExceptionState** exception, but the child objects of the specified **Method** could have been deleted before the error occurred.

<40> [Section 3.1.4.13](#): In SharePoint Foundation 2010, the **Parameter** will not be deleted when this operation does not succeed. But the root **TypeDescriptor** of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, will be deleted.

<41> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a **MetadataException** (from namespace **Microsoft.BusinessData.SharePoint**) serialized as specified in section [2.2.4](#).

<42> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a **MetadataException** (from namespace **Microsoft.BusinessData.SharePoint**) serialized as specified in section [2.2.4](#).

<43> [Section 3.1.4.16](#): In SharePoint Foundation 2010, the **Method** will not be deleted if this operation cannot execute successfully and the server throws a **ConcurrentModificationExceptionState** exception. But the **MethodInstances**, **FilterDescriptors**, and **Parameters** that are child objects of the specified **Method**, as well as all their child objects, could have already been deleted.

<44> [Section 3.1.4.16](#): In SharePoint Foundation 2010, the **Parameter** will not be deleted if this operation cannot execute successfully and the server throws a **ConcurrentModificationExceptionState** exception. But the root **TypeDescriptor** of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, will be deleted.

<45> [Section 3.1.4.17](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<46> [Section 3.1.4.17](#): In SharePoint Foundation 2010, the server does not return any error complex type for this condition, but instead returns NULL.

<47> [Section 3.1.4.17.2.1](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<48> [Section 3.1.4.19](#): In SharePoint Foundation 2010, a **security principal** is authorized to export a **MetadataObject** if the same security principal is authorized to modify the same **MetadataObject**.

<49> [Section 3.1.4.20](#): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<50> [Section 3.1.4.24](#): SharePoint Foundation 2010 does not raise an error in this case.

<51> [Section 3.1.4.24](#): SharePoint Foundation 2010 does not raise an error in this case.

<52> [Section 3.1.4.25](#): SharePoint Foundation 2010 does not raise an error in this case.

<53> [Section 3.1.4.26](#): SharePoint Foundation 2010 does not raise an error in this case.

<54> [Section 3.1.4.27](#): SharePoint Foundation 2010 does not raise an error in this case.

<55> [Section 3.1.4.33](#): SharePoint Foundation 2010 does not return a fault in this case.

<56> [Section 3.1.4.33](#): SharePoint Foundation 2010 does not return a fault in this case.

<57> [Section 3.1.4.35](#): SharePoint Foundation 2010 does not raise an error in this case.

<58> [Section 3.1.4.36](#): SharePoint Foundation 2010 does not raise an error in this case.

<59> [Section 3.1.4.38](#): SharePoint Foundation 2010 does not raise an error in this case.

- <60> [Section 3.1.4.40](#): SharePoint Foundation 2010 does not raise an error in this case.
- <61> [Section 3.1.4.41](#): In SharePoint Foundation 2010, this operation returns zero **TypeDescriptors**.
- <62> [Section 3.1.4.41](#): SharePoint Foundation 2010 does not raise an error in this case.
- <63> [Section 3.1.4.41](#): SharePoint Foundation 2010 does not raise an error in this case.
- <64> [Section 3.1.4.43](#): SharePoint Foundation 2010 does not return a fault in this case.
- <65> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not raise an error in this case.
- <66> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not raise an error in this case.
- <67> [Section 3.1.4.46](#): SharePoint Foundation 2010 does not return a fault in this case.
- <68> [Section 3.1.4.48](#): SharePoint Foundation 2010 does not return a fault in this case.
- <69> [Section 3.1.4.50](#): SharePoint Foundation 2010 does not raise an error in this case.
- <70> [Section 3.1.4.50](#): SharePoint Foundation 2010 does not raise an error in this case.
- <71> [Section 3.1.4.51](#): SharePoint Foundation 2010 does not return a fault when the value of the role parameter is not zero ("0") or "1".
- <72> [Section 3.1.4.51](#): SharePoint Foundation 2010 returns a **BdcExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) error complex type in this case.
- <73> [Section 3.1.4.56](#): SharePoint Foundation 2010 does not return a fault in this case.
- <74> [Section 3.1.4.56](#): SharePoint Foundation 2010 does not return a fault in this case.
- <75> [Section 3.1.4.58](#): SharePoint Foundation 2010 does not return a fault in this case.
- <76> [Section 3.1.4.58](#): SharePoint Foundation 2010 does not return a fault in this case.
- <77> [Section 3.1.4.60](#): SharePoint Foundation 2010 does not raise an error in this case.
- <78> [Section 3.1.4.60](#): SharePoint Foundation 2010 does not raise an error in this case.
- <79> [Section 3.1.4.61](#): The behavior is identified by the specific implementation of the custom code that handles **LobSystem** data, and is not understood by the protocol server implementation.
- <80> [Section 3.1.4.61](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.
- <81> [Section 3.1.4.63](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.
- <82> [Section 3.1.4.64](#): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and are understood by the .NET Framework.
- <83> [Section 3.1.4.64](#): SharePoint Foundation 2010 does not raise an error in this case.
- <84> [Section 3.1.4.64](#): SharePoint Foundation 2010 does not raise an error in this case.
- <85> [Section 3.1.4.64.2.2](#): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<86> [Section 3.1.4.66](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystemInstance** to determine if the security principal is authorized to read the **LobSystemInstance**.

<87> [Section 3.1.4.66](#): SharePoint Foundation 2010 does not return a fault in this case.

<88> [Section 3.1.4.66](#): SharePoint Foundation 2010 does not return a fault in this case.

<89> [Section 3.1.4.67](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<90> [Section 3.1.4.67](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

<91> [Section 3.1.4.67.2.2](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<92> [Section 3.1.4.69](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

<93> [Section 3.1.4.69](#): SharePoint Foundation 2010 does not return a fault in this case.

<94> [Section 3.1.4.69](#): SharePoint Foundation 2010 does not return a fault in this case.

<95> [Section 3.1.4.72](#): SharePoint Foundation 2010 does not raise an error in this case.

<96> [Section 3.1.4.73](#): SharePoint Foundation 2010 does not raise an error in this case.

<97> [Section 3.1.4.74](#): SharePoint Foundation 2010 does not return a fault in this case.

<98> [Section 3.1.4.74](#): SharePoint Foundation 2010 does not return a fault in this case.

<99> [Section 3.1.4.77](#): SharePoint Foundation 2010 does not return a fault in this case.

<100> [Section 3.1.4.80](#): SharePoint Foundation 2010 does not return a fault in this case.

<101> [Section 3.1.4.80](#): SharePoint Foundation 2010 does not return a fault in this case.

<102> [Section 3.1.4.83.2.2](#): SharePoint Foundation 2010 requires the identifier to be in the following format as expressed in **ABNF**, as specified in [RFC5234]:

```
Identifier = TypeName (%x2C FullAssemblyName)
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [MS-NRTP] section 2.2.1.3.

TypeName: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework. The format is specified in [MS-NRTP] section 2.2.1.2. The specified type implements operations that are described in [MSDN-SharePointSDK].

<103> [Section 3.1.4.86](#): SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

<104> [Section 3.1.4.94.2.2](#): SharePoint Foundation 2010 sets this element to false regardless of whether or not the specified **Parameter** contains a **ReturnTypeDescriptor**.

<105> [Section 3.1.4.95](#): In SharePoint Foundation 2010, if the specified **MetadataObject** is Action, the server will ignore the **entityId** specified by the client and set its value to the id of the input **parentStruct**.

<106> [Section 3.1.4.95.2.2](#): In SharePoint Foundation 2010, if the **MetadataObject** specified in the request is a **MetadataCatalog** and the client specifies a name for it, the server will ignore the name set by the client and set the new created **MetadataCatalog** name with the input **partitionId**. If the **MetadataObject** specified in the request is associated with the empty **DestinationEntityName** and empty **DestinationEntityNamespace** set by the client, the server will create the association using "," as the **DestinationEntityName** value and **DestinationEntityNamespace** value. If the **MetadataObject** specified in the request is associated with the empty **DestinationEntityName** and non-empty **DestinationEntityNamespace** set by the client, the server will create the association using "," as the **DestinationEntityName** value and will use the associated input **DestinationEntityNamespace** value appended with a "," as the **DestinationEntityNamespace** value.

<107> [Section 3.1.4.97](#): In SharePoint Foundation 2010, if there is an error in the input XML, the server will return an error to the client, but some **MetadataObjects** that had been created before encountering the error could still exist.

<108> [Section 3.1.4.97](#): SharePoint Foundation 2010 returns a fault containing the **InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)** complex type in this case.

<109> [Section 3.1.4.99](#): SharePoint Foundation 2010 returns a fault containing the **InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)** complex type in this case.

<110> [Section 3.1.4.99.2.1](#): In SharePoint Foundation 2010, if this element is set to TRUE, the protocol server does not remove the **Entity** references from the **Model** and does not create **Entity** references in the **Model** for all **Entities** in the specified **MetadataModel**.

<111> [Section 3.1.4.100.2.1](#): SharePoint Foundation 2010 does not validate this constraint.

<112> [Section 3.1.4.100.2.1](#): SharePoint Foundation 2010 does not enforce this to be **MetadataCatalog**.

<113> [Section 3.1.4.110](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<114> [Section 3.1.4.110.2.1](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

<115> [Section 3.1.4.114](#): SharePoint Foundation 2010 does not return a fault in this case.

<116> [Section 3.1.4.114](#): SharePoint Foundation 2010 does not return a fault in this case.

<117> [Section 3.1.4.114](#): SharePoint Foundation 2010 does not raise an error in this case.

<118> [Section 3.1.4.114](#): In SharePoint Foundation 2010, if the **ordinalNumber** attribute of the specified **Parameter** is the same as the **ordinalNumber** attribute of another **Parameter** contained by the **Method** containing the specified **Parameter**, the server throws the **BdcExceptionState** error, and the **ordinalNumber** attribute of the specified **Parameter** is updated to the same as the **ordinalNumber** attribute in the request message. After the operation completes, there are two **Parameters** with the same **ordinalNumber** attribute.

<119> [Section 3.1.4.114](#): In SharePoint Foundation 2010, if the **isDefault** attribute of the specified **MethodInstance** is set to "false"(and the previous **isDefault** attribute of all **MethodInstances** that have the same value for the **MethodInstanceType** attribute in the containing **DataClass** is "false") the protocol server sets the **IsDefault** attribute of one **MethodInstance** with the same value for

MethodInstanceType in the containing **DataClass** to "true". The algorithm used by the server to determine which **MethodInstance** to alter is based on an implementation-specific algorithm, and is therefore nondeterministic.

[<120> Section 3.1.4.115](#): SharePoint Foundation 2010 does not enforce the specified MetadataObject to be a Model or an LobSystem.

[<121> Section 3.1.4.115.2.1](#): SharePoint Foundation 2010 does not validate this constraint.

9 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

10 Index

A

Abstract data model
 [server](#) 92
[AccessControlEntryStruct complex type](#) 54
[AccessDeniedException complex type](#) 54
[AccessDeniedExceptionState complex type](#) 54
[ActionParameterStruct complex type](#) 55
[ActionStruct complex type](#) 55
[Activating an Entity example](#) 544
[Adding localized names for MetadataObjects example](#)
 549
[AdministrationMetadataCatalogStruct complex type](#)
 56
[Applicability](#) 46
[ArgumentException complex type](#) 56
[ArgumentNullException complex type](#) 57
[ArgumentOutOfRangeException complex type](#) 57
[ArrayOfAccessControlEntryStruct complex type](#) 57
[ArrayOfAssociationStruct complex type](#) 57
[ArrayOfEntityStruct complex type](#) 58
[ArrayOfLobSystemStruct complex type](#) 58
[ArrayOfLocalizedNameStruct complex type](#) 58
[ArrayOfMethodInstanceStruct complex type](#) 59
[ArrayOfModelStruct complex type](#) 59
[ArrayOfPropertyStruct complex type](#) 59
[ArrayOfstring complex type](#) 59
[ArrayOfTypeDescriptorStruct complex type](#) 60
[ArrayOfunsignedInt complex type](#) 60
[AssociationGroupStruct complex type](#) 60
[AssociationReferenceStruct complex type](#) 61
[AssociationStruct complex type](#) 62
[Attribute groups](#) 91
[Attributes](#) 91

B

[BdcException complex type](#) 63
[BdcExceptionState complex type](#) 63

C

[CacheUsage simple type](#) 82
[Capability negotiation](#) 46
[Change tracking](#) 808
[char simple type](#) 83
[Complex types](#) 49
 [AccessControlEntryStruct](#) 54
 [AccessDeniedException](#) 54
 [AccessDeniedExceptionState](#) 54
 [ActionParameterStruct](#) 55
 [ActionStruct](#) 55
 [AdministrationMetadataCatalogStruct](#) 56
 [ArgumentException](#) 56
 [ArgumentNullException](#) 57
 [ArgumentOutOfRangeException](#) 57
 [ArrayOfAccessControlEntryStruct](#) 57
 [ArrayOfAssociationStruct](#) 57
 [ArrayOfEntityStruct](#) 58
 [ArrayOfLobSystemStruct](#) 58
 [ArrayOfLocalizedNameStruct](#) 58
 [ArrayOfMethodInstanceStruct](#) 59

[ArrayOfModelStruct](#) 59
 [ArrayOfPropertyStruct](#) 59
 [ArrayOfstring](#) 59
 [ArrayOfTypeDescriptorStruct](#) 60
 [ArrayOfunsignedInt](#) 60
 [AssociationGroupStruct](#) 60
 [AssociationReferenceStruct](#) 61
 [AssociationStruct](#) 62
 [BdcException](#) 63
 [BdcExceptionState](#) 63
 [ComplexValueStruct](#) 64
 [ConcurrentModificationExceptionState](#) 64
 [DataClassStruct](#) 65
 [DefaultValueStruct](#) 65
 [DuplicateMetadataObjectExceptionState](#) 66
 [EntityStruct](#) 66
 [ExceededMetadataObjectLimitExceptionState](#) 67
 [Exception](#) 67
 [FilterDescriptorStruct](#) 67
 [IdentifierStruct](#) 68
 [InvalidMetadataObjectExceptionState](#) 69
 [InvalidMetadataPropertyExceptionState](#) 69
 [InvalidOperationException](#) 70
 [LobSystemInstanceStruct](#) 70
 [LobSystemStruct](#) 71
 [LocalizedNameStruct](#) 71
 [MetadataException](#) 71
 [MetadataObjectNotFoundExceptionState](#) 72
 [MetadataObjectStruct](#) 72
 [MethodInstanceStruct](#) 73
 [MethodStruct](#) 74
 [ModelStruct](#) 74
 [PackageFormatExceptionState](#) 75
 [ParameterStruct](#) 75
 [PropertyStruct](#) 76
 [ProxyGenerationResult](#) 76
 [SafetyNetStruct](#) 77
 [TypeDescriptorStruct](#) 78
 [Version](#) 81
[ComplexValueStruct complex type](#) 64
[ConcurrentModificationExceptionState complex type](#)
 64
[Creating an Entity example](#) 542
[Creating an LobSystem example](#) 538
[Creating properties for MetadataObjects example](#)
 548

D

Data model - abstract
 [server](#) 92
[DataClassStruct complex type](#) 65
[DefaultValueStruct complex type](#) 65
[Deleting an Entity example](#) 553
[DirectionType simple type](#) 83
[DuplicateMetadataObjectExceptionState complex type](#) 66

E

[EntityStruct complex type](#) 66
Events

[local - server](#) 537
[timer - server](#) 537
Examples
[activating an Entity](#) 544
[adding localized names for MetadataObjects](#) 549
[creating an Entity](#) 542
[Creating an LobSystem](#) 538
[creating properties for MetadataObjects](#) 548
[deleting an Entity](#) 553
[overview](#) 538
[reading an Entity](#) 546
[reading the security information of a MetadataObject](#) 541
[setting the security information of a MetadataObject](#) 539
[updating an Entity](#) 551
[ExceededMetadataObjectLimitExceptionState complex type](#) 67
[Exception complex type](#) 67

F

[Fields - vendor-extensible](#) 46
[FilterDescriptorStruct complex type](#) 67
[FilterType simple type](#) 83
[Full WSDL](#) 556
[Full XML schema](#) 751

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure.Schema> 751

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel.Schema> 752

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime.Schema> 783

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific.Schema> 784

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants.Schema> 785

<http://schemas.datacontract.org/2004/07/System.Schema> 797

<http://schemas.microsoft.com/2003/10/Serialization.Schema> 796

<http://schemas.microsoft.com/2003/10/Serialization/Arrays.Schema> 795

<http://www.microsoft.com/Office/2009/BusinessDataCatalog.Schema> 754

[Microsoft.BusinessData.SharePoint.Schema](#) 784
[Microsoft.SharePoint.BusinessData.Schema](#) 785

G

[Glossary](#) 37
[Groups](#) 91

I

[IdentifierStruct complex type](#) 68

[Implementer - security considerations](#) 555
[Informative references](#) 45

Initialization
[server](#) 98
[Introduction](#) 37
[InvalidMetadataObjectExceptionState complex type](#) 69
[InvalidMetadataPropertyExceptionState complex type](#) 69
[InvalidOperationException complex type](#) 70

L

[LobSystemInstanceStruct complex type](#) 70
[LobSystemStruct complex type](#) 71
Local events
[server](#) 537
[LocalizedNameStruct complex type](#) 71

M

Message processing
[server](#) 98
Messages
[AccessControlEntryStruct complex type](#) 54
[AccessDeniedException complex type](#) 54
[AccessDeniedExceptionState complex type](#) 54
[ActionParameterStruct complex type](#) 55
[ActionStruct complex type](#) 55
[AdministrationMetadataCatalogStruct complex type](#) 56
[ArgumentException complex type](#) 56
[ArgumentNullException complex type](#) 57
[ArgumentOutOfRangeException complex type](#) 57
[ArrayOfAccessControlEntryStruct complex type](#) 57
[ArrayOfAssociationStruct complex type](#) 57
[ArrayOfEntityStruct complex type](#) 58
[ArrayOfLobSystemStruct complex type](#) 58
[ArrayOfLocalizedNameStruct complex type](#) 58
[ArrayOfMethodInstanceStruct complex type](#) 59
[ArrayOfModelStruct complex type](#) 59
[ArrayOfPropertyStruct complex type](#) 59
[ArrayOfstring complex type](#) 59
[ArrayOfTypeDescriptorStruct complex type](#) 60
[ArrayofunsignedInt complex type](#) 60
[AssociationGroupStruct complex type](#) 60
[AssociationReferenceStruct complex type](#) 61
[AssociationStruct complex type](#) 62
[attribute groups](#) 91
[attributes](#) 91
[BdcException complex type](#) 63
[BdcExceptionState complex type](#) 63
[CacheUsage simple type](#) 82
[char simple type](#) 83
[complex types](#) 49
[ComplexValueStruct complex type](#) 64
[ConcurrentModificationExceptionState complex type](#) 64
[DataClassStruct complex type](#) 65
[DefaultValueStruct complex type](#) 65
[DirectionType simple type](#) 83
[DuplicateMetadataObjectExceptionState complex type](#) 66
[elements](#) 49
[EntityStruct complex type](#) 66

[enumerated](#) 49
[ExceededMetadataObjectLimitExceptionState complex type](#) 67
[Exception complex type](#) 67
[FilterDescriptorStruct complex type](#) 67
[FilterType simple type](#) 83
[groups](#) 91
[IdentifierStruct complex type](#) 68
[InvalidMetadataObjectExceptionState complex type](#) 69
[InvalidMetadataPropertyExceptionState complex type](#) 69
[InvalidOperationException complex type](#) 70
[LobSystemInstanceStruct complex type](#) 70
[LobSystemStruct complex type](#) 71
[LocalizedNameStruct complex type](#) 71
[MetadataException complex type](#) 71
[MetadataObjectNotFoundExceptionState complex type](#) 72
[MetadataObjectStruct complex type](#) 72
[MethodInstanceStruct complex type](#) 73
[MethodInstanceType simple type](#) 85
[MethodStruct complex type](#) 74
[ModelStruct complex type](#) 74
[namespaces](#) 48
[PackageContents simple type](#) 87
[PackageFormatExceptionState complex type](#) 75
[ParameterStruct complex type](#) 75
[PropertyStruct complex type](#) 76
[ProxyGenerationResult complex type](#) 76
[SafetyNetStruct complex type](#) 77
[simple types](#) 81
[syntax](#) 48
[SystemType simple type](#) 87
[ThrottleScope simple type](#) 88
[ThrottleType simple type](#) 89
[transport](#) 48
[TypeDescriptorFlags simple type](#) 90
[TypeDescriptorStruct complex type](#) 78
[Version complex type](#) 81
[MetadataException complex type](#) 71
[MetadataObjectNotFoundExceptionState complex type](#) 72
[MetadataObjectStruct complex type](#) 72
[MethodInstanceStruct complex type](#) 73
[MethodInstanceType simple type](#) 85
[MethodStruct complex type](#) 74
[ModelStruct complex type](#) 74

N

[Namespaces](#) 48
[Normative references](#) 44

O

Operations
[Activate](#) 115
[AddAssociationReferenceToAssociationGroup](#) 118
[AddEntityToModel](#) 122
[AddThrottlingRule](#) 125
[BulkSwitchActiveOrValidate](#) 128
[CheckPathInMethodInstances](#) 139
[ClearLocalizedNames](#) 142
[ClearProperties](#) 145
[CopyAclAcrossChildren](#) 148
[CopyAclAcrossChildrenForSetting](#) 152
[CopyAclToSetting](#) 155
[Deactivate](#) 158
[Delete](#) 162
[DeleteAssociationReferenceFromAssociationGroup](#) 166
[DeleteDefaultValueForTypeDescriptor](#) 171
[DeleteNoCascade](#) 174
[DeleteProxyAssemblyForLobSystem](#) 178
[EntityCreate](#) 181
[ExportPackage](#) 185
[GenerateProxyAssemblyForLobSystem](#) 189
[GetAccessControlEntries](#) 192
[GetActionById](#) 195
[GetActionParameterById](#) 198
[GetActionParametersForAction](#) 202
[GetActionsForEntity](#) 205
[GetAllLocalizedNames](#) 208
[GetAllLocalizedNamesForMetadataObjectStruct](#) 212
[GetAllPartitionIds](#) 215
[GetAllProperties](#) 218
[GetAllPropertiesForMetadataObjectStruct](#) 221
[GetAssociationById](#) 225
[GetAssociationGroupById](#) 228
[GetAssociationGroupsForEntity](#) 231
[GetAssociationMembersInRole](#) 234
[GetAssociationReferencesForAssociationGroup](#) 239
[GetAssociationsForDataClass](#) 243
[GetAssociationsForEntityAndRole](#) 246
[GetAssociationsForMethod](#) 250
[GetCacheInvalidationRecordsSince](#) 253
[GetChildTypeDescriptorsForTypeDescriptor](#) 258

[GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor](#) 261
[GetDataClassById](#) 265
[GetDataClassesForSystem](#) 268
[GetDefaultValuesForTypeDescriptor](#) 272
[GetEntitiesForAssociationAndRole](#) 275
[GetEntitiesForSystem](#) 279
[GetEntitiesLikeNameAndNamespace](#) 282
[GetEntitiesReferencedByModelId](#) 286
[GetEntityById](#) 290
[GetEntityCount](#) 293

[GetEntityNameAndNamespacesForAssociationAndRole](#) 296
[GetEntityWithNameAndNamespace](#) 299
[GetEntityWithNameAndNamespaceAndVersion](#) 302
[GetFieldTypeDescriptorsByMethodInstance](#) 306
[GetFilterDescriptorById](#) 309
[GetFilterDescriptorsForMethod](#) 313
[GetIdentifierById](#) 316
[GetIdentifiersForEntity](#) 319
[GetImportProgress](#) 323
[GetLevelForTypeDescriptor](#) 325
[GetLobSystemAllAssembliesBytes](#) 328
[GetLobSystemById](#) 332
[GetLobSystemByName](#) 335
[GetLobSystemDataByLobSystem](#) 339
[GetLobSystemInstanceById](#) 342
[GetLobSystemInstancesForLobSystem](#) 346
[GetLobSystemProxyAssemblyBytesByLobSystemId](#) 350

[GetLobSystemsLikeName](#) 354

[GetLobSystemsReferencedByEntitiesAssociatedWithModel](#) 357

[GetMethodById](#) 361

[GetMethodInstanceById](#) 364

[GetMethodInstancesForDataClass](#) 368

[GetMethodInstancesForMethod](#) 371

[GetMethodsForDataClass](#) 374

[GetModelById](#) 377

[GetModelByName](#) 380

[GetModelsByEntityId](#) 383

[GetModelsByName](#) 386

[GetParameterById](#) 390

[GetParametersForMethod](#) 393

[GetRootTypeDescriptorForParameter](#) 396

[GetServiceApplicationId](#) 399

[GetSystemUtilityTypeNameForLobSystem](#) 402

[GetThrottlingRules](#) 405

[GetTypeDescriptorById](#) 407

[GetTypeDescriptorsByNameAndLevelForParameter](#) 411

[GetTypeDescriptorsForFilterDescriptor](#) 414

[GetTypeReflectorTypeNameForParameter](#) 417

[GetXmlSchemaForView](#) 421

[HaveRights](#) 423

[ImportPackage](#) 427

[ImportPackageWithProgress](#) 433

[IsMethodInstantiated](#) 439

[IsParameterReferencedByMethodInstance](#) 442

[MetadataObjectCreate](#) 445

[MetadataObjectMergeXml](#) 453

[MetadataObjectReadXml](#) 459

[MetadataObjectWriteXml](#) 467

[ModelReadXml](#) 473

[ReadSlicedXml](#) 479

[RemoveEntityFromModel](#) 482

[RemoveLocalizedName](#) 485

[RemoveProperty](#) 488

[RemoveThrottlingRule](#) 491

[SaveLocalizedName](#) 494

[SaveProperty](#) 497

[SetAccessControlEntries](#) 500

[SetDefaultActionForEntity](#) 504

[SetDefaultValuesForTypeDescriptor](#) 507

[SetLobSystemDataByLobSystemId](#) 511

[TypeDescriptorCreate](#) 514

[TypeDescriptorMergeXml](#) 518

[TypeDescriptorReadXml](#) 522

[Update](#) 527

[WriteSlicedXml](#) 533

[Overview \(synopsis\)](#) 45

P

[PackageContents simple type](#) 87

[PackageFormatExceptionState complex type](#) 75

[ParameterStruct complex type](#) 75

[Preconditions](#) 46

[Prerequisites](#) 46

[Product behavior](#) 799

[PropertyStruct complex type](#) 76

Protocol Details

[overview](#) 92

[ProxyGenerationResult complex type](#) 76

R

[Reading an Entity example](#) 546

[Reading the security information of a MetadataObject example](#) 541

[References](#) 44

[informative](#) 45

[normative](#) 44

[Relationship to other protocols](#) 45

S

[SafetyNetStruct complex type](#) 77

Security

[implementer considerations](#) 555

Sequencing rules

[server](#) 98

Server

[abstract data model](#) 92

[Activate operation](#) 115

[AddAssociationReferenceToAssociationGroup operation](#) 118

[AddEntityToModel operation](#) 122

[AddThrottlingRule operation](#) 125

[BulkSwitchActiveOrValidate operation](#) 128

[CheckPathInMethodInstances operation](#) 139

[ClearLocalizedNames operation](#) 142

[ClearProperties operation](#) 145

[CopyAclAcrossChildren operation](#) 148

[CopyAclAcrossChildrenForSetting operation](#) 152

[CopyAclToSetting operation](#) 155

[Deactivate operation](#) 158

[Delete operation](#) 162

[DeleteAssociationReferenceFromAssociationGroup operation](#) 166

[DeleteDefaultValueForTypeDescriptor operation](#) 171

[DeleteNoCascade operation](#) 174

[DeleteProxyAssemblyForLobSystem operation](#) 178

[EntityCreate operation](#) 181

[ExportPackage operation](#) 185

[GenerateProxyAssemblyForLobSystem operation](#) 189

[GetAccessControlEntries operation](#) 192

[GetActionById operation](#) 195

[GetActionParameterById operation](#) 198

[GetActionParametersForAction operation](#) 202

[GetActionsForEntity operation](#) 205

[GetAllLocalizedNames operation](#) 208

[GetAllLocalizedNamesForMetadataObjectStruct operation](#) 212

[GetAllPartitionIds operation](#) 215

[GetAllProperties operation](#) 218

[GetAllPropertiesForMetadataObjectStruct operation](#) 221

[GetAssociationById operation](#) 225

[GetAssociationGroupById operation](#) 228

[GetAssociationGroupsForEntity operation](#) 231

[GetAssociationMembersInRole operation](#) 234

[GetAssociationReferencesForAssociationGroup operation](#) 239

[GetAssociationsForDataClass operation](#) 243

[GetAssociationsForEntityAndRole operation](#) 246

[GetAssociationsForMethod operation](#) 250

[GetCacheInvalidationRecordsSince operation](#) 253
[GetChildTypeDescriptorsForTypeDescriptor operation](#) 258
 [GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor operation](#) 261
[GetDataClassById operation](#) 265
[GetDataClassesForSystem operation](#) 268
[GetDefaultValuesForTypeDescriptor operation](#) 272
[GetEntitiesForAssociationAndRole operation](#) 275
[GetEntitiesForSystem operation](#) 279
[GetEntitiesLikeNameAndNamespace operation](#) 282
[GetEntitiesReferencedByModelId operation](#) 286
[GetEntityById operation](#) 290
[GetEntityCount operation](#) 293
 [GetEntityNameAndNamespacesForAssociationAndRole operation](#) 296
[GetEntityWithNameAndNamespace operation](#) 299
[GetEntityWithNameAndNamespaceAndVersion operation](#) 302
[GetFieldTypeDescriptorsByMethodInstance operation](#) 306
[GetFilterDescriptorById operation](#) 309
[GetFilterDescriptorsForMethod operation](#) 313
[GetIdentifierById operation](#) 316
[GetIdentifiersForEntity operation](#) 319
[GetImportProgress operation](#) 323
[GetLevelForTypeDescriptor operation](#) 325
[GetLobSystemAllAssembliesBytes operation](#) 328
[GetLobSystemById operation](#) 332
[GetLobSystemByName operation](#) 335
[GetLobSystemDataByLobSystem operation](#) 339
[GetLobSystemInstanceById operation](#) 342
[GetLobSystemInstancesForLobSystem operation](#) 346
[GetLobSystemProxyAssemblyBytesByLobSystemId operation](#) 350
[GetLobSystemsLikeName operation](#) 354
 [GetLobSystemsReferencedByEntitiesAssociatedWithModel operation](#) 357
[GetMethodById operation](#) 361
[GetMethodInstanceById operation](#) 364
[GetMethodInstancesForDataClass operation](#) 368
[GetMethodInstancesForMethod operation](#) 371
[GetMethodsForDataClass operation](#) 374
[GetModelById operation](#) 377
[GetModelByName operation](#) 380
[GetModelsByEntityId operation](#) 383
[GetModelsByName operation](#) 386
[GetParameterById operation](#) 390
[GetParametersForMethod operation](#) 393
[GetRootTypeDescriptorForParameter operation](#) 396
[GetServiceApplicationId operation](#) 399
[GetSystemUtilityTypeNameForLobSystem operation](#) 402
[GetThrottlingRules operation](#) 405
[GetTypeDescriptorById operation](#) 407
[GetTypeDescriptorsByNameAndLevelForParameter operation](#) 411
[GetTypeDescriptorsForFilterDescriptor operation](#) 414
[GetTypeReflectorTypeNameForParameter operation](#) 417
[GetXmlSchemaForView operation](#) 421
[HaveRights operation](#) 423
[ImportPackage operation](#) 427
[ImportPackageWithProgress operation](#) 433
[initialization](#) 98
[IsMethodInstantiated operation](#) 439
[IsParameterReferencedByMethodInstance operation](#) 442
[local events](#) 537
[message processing](#) 98
[MetadataObjectCreate operation](#) 445
[MetadataObjectMergeXml operation](#) 453
[MetadataObjectReadXml operation](#) 459
[MetadataObjectWriteXml operation](#) 467
[ModelReadXml operation](#) 473
[ReadSlicedXml operation](#) 479
[RemoveEntityFromModel operation](#) 482
[RemoveLocalizedName operation](#) 485
[RemoveProperty operation](#) 488
[RemoveThrottlingRule operation](#) 491
[SaveLocalizedName operation](#) 494
[SaveProperty operation](#) 497
[sequencing rules](#) 98
[SetAccessControlEntries operation](#) 500
[SetDefaultActionForEntity operation](#) 504
[SetDefaultValuesForTypeDescriptor operation](#) 507
[SetLobSystemDataByLobSystemId operation](#) 511
[timer events](#) 537
[timers](#) 98
[TypeDescriptorCreate operation](#) 514
[TypeDescriptorMergeXml operation](#) 518
[TypeDescriptorReadXml operation](#) 522
[Update operation](#) 527
[WriteSlicedXml operation](#) 533
[Server details](#) 92
[Setting the security information of a MetadataObject example](#) 539
[Simple types](#) 81
 [CacheUsage](#) 82
 [char](#) 83
 [DirectionType](#) 83
 [FilterType](#) 83
 [MethodInstanceType](#) 85
 [PackageContents](#) 87
 [SystemType](#) 87
 [ThrottleScope](#) 88
 [ThrottleType](#) 89
 [TypeDescriptorFlags](#) 90
[Standards assignments](#) 47
[Syntax](#)
 [messages - overview](#) 48
[SystemType simple type](#) 87
T
[ThrottleScope simple type](#) 88
[ThrottleType simple type](#) 89
[Timer events](#)
 [server](#) 537
[Timers](#)
 [server](#) 98
[Tracking changes](#) 808
[Transport](#) 48
[TypeDescriptorFlags simple type](#) 90
[TypeDescriptorStruct complex type](#) 78

Types

[complex](#) 49

[simple](#) 81

U

[Updating an Entity example](#) 551

V

[Vendor-extensible fields](#) 46

[Version complex type](#) 81

[Versioning](#) 46

W

[WSDL](#) 556

X

[XML schema](#) 751

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure> Schema 751

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel> Schema 752

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema 783

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific> Schema 784

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants> Schema 785

<http://schemas.datacontract.org/2004/07/System> Schema 797

<http://schemas.microsoft.com/2003/10/Serialization/> Schema 796

<http://schemas.microsoft.com/2003/10/Serialization/Arrays> Schema 795

<http://www.microsoft.com/Office/2009/BusinessDataCatalog> Schema 754

[Microsoft.BusinessData.SharePoint](#) Schema 784

[Microsoft.SharePoint.BusinessData](#) Schema 785