

## [MS-BDCRAWPS]:

# Business Data Connectivity Remote Administration 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](mailto: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](http://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](mailto:dochelp@microsoft.com).

**Preliminary Documentation.** This particular Open Specifications document provides documentation for past and current releases and/or for the pre-release version of this technology. This document provides final documentation for past and current releases and preliminary documentation, as applicable and specifically noted in this document, for the pre-release version. Microsoft will release final documentation in connection with the commercial release of the updated or new version of this

technology. Because this documentation might change between the pre-release version and the final version of this technology, there are risks in relying on this preliminary documentation. To the extent that you incur additional development obligations or any other costs as a result of relying on this preliminary documentation, you do so at your own risk.

Preliminary

## 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	2.1	Minor	Clarified the meaning of the technical content.
7/30/2013	2.2	Minor	Clarified the meaning of the technical content.
11/18/2013	2.3	Minor	Clarified the meaning of the technical content.
2/10/2014	2.3	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	2.4	Minor	Clarified the meaning of the technical content.
7/31/2014	2.5	Minor	Clarified the meaning of the technical content.
10/30/2014	2.5	None	No changes to the meaning, language, or formatting of the

<b>Date</b>	<b>Revision History</b>	<b>Revision Class</b>	<b>Comments</b>
			technical content.
3/16/2015	3.0	Major	Significantly changed the technical content.
2/26/2016	4.0	Major	Significantly changed the technical content.
7/15/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
6/20/2017	5.0	Major	Significantly changed the technical content.
7/24/2018	6.0	Major	Significantly changed the technical content.

Preliminary

# Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>37</b>
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 .....	46
1.5	Prerequisites/Preconditions .....	46
1.6	Applicability Statement .....	46
1.7	Versioning and Capability Negotiation .....	46
1.8	Vendor-Extensible Fields .....	47
1.9	Standards Assignments.....	47
<b>2</b>	<b>Messages.....</b>	<b>48</b>
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 .....	53
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.....	56
2.2.4.9	ArgumentOutOfRangeException .....	57
2.2.4.10	ArrayOfAccessControlEntryStruct .....	57
2.2.4.11	ArrayOfAssociationStruct .....	57
2.2.4.12	ArrayOfEntityStruct .....	57
2.2.4.13	ArrayOfLobSystemStruct.....	58
2.2.4.14	ArrayOfLocalizedNameStruct .....	58
2.2.4.15	ArrayOfMethodInstanceStruct.....	58
2.2.4.16	ArrayOfModelStruct .....	59
2.2.4.17	ArrayOfPropertyStruct .....	59
2.2.4.18	ArrayOfstring.....	59
2.2.4.19	ArrayOfTypeDescriptorStruct .....	59
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 .....	63
2.2.4.27	ConcurrentModificationExceptionState .....	64
2.2.4.28	DataClassStruct .....	64
2.2.4.29	DefaultValueStruct .....	65
2.2.4.30	DuplicateMetadataObjectExceptionState .....	65
2.2.4.31	EntityStruct.....	66
2.2.4.32	ExceededMetadataObjectLimitExceptionState .....	66
2.2.4.33	Exception.....	67
2.2.4.34	FilterDescriptorStruct .....	67
2.2.4.35	IdentifierStruct .....	67

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 .....	70
2.2.4.41	LocalizedNameStruct .....	70
2.2.4.42	MetadataException .....	71
2.2.4.43	MetadataObjectNotFoundExceptionState .....	71
2.2.4.44	MetadataObjectStruct .....	72
2.2.4.45	MethodInstanceStruct .....	73
2.2.4.46	MethodStruct .....	73
2.2.4.47	ModelStruct .....	74
2.2.4.48	PackageFormatExceptionState .....	74
2.2.4.49	ParameterStruct .....	75
2.2.4.50	PropertyStruct .....	75
2.2.4.51	ProxyGenerationResult .....	76
2.2.4.52	SystemException .....	76
2.2.4.53	TypeDescriptorStruct .....	76
2.2.4.54	Version .....	80
2.2.5	Simple Types .....	80
2.2.5.1	CacheUsage .....	81
2.2.5.2	char .....	81
2.2.5.3	DirectionType .....	81
2.2.5.4	duration .....	82
2.2.5.5	FilterType .....	82
2.2.5.6	guid .....	84
2.2.5.7	MethodInstanceType .....	84
2.2.5.8	PackageContents .....	85
2.2.5.9	SystemType .....	86
2.2.5.10	TypeDescriptorFlags .....	87
2.2.6	Attributes .....	88
2.2.7	Groups .....	88
2.2.8	Attribute Groups .....	88
<b>3</b>	<b>Protocol Details .....</b>	<b>89</b>
3.1	Server Details .....	89
3.1.1	Abstract Data Model .....	89
3.1.2	Timers .....	94
3.1.3	Initialization .....	94
3.1.4	Message Processing Events and Sequencing Rules .....	94
3.1.4.1	Activate .....	111
3.1.4.1.1	Messages .....	112
3.1.4.1.1.1	BusinessDataCatalogSharedService_Activate_InputMessage .....	113
3.1.4.1.1.2	BusinessDataCatalogSharedService_Activate_OutputMessage .....	113
3.1.4.1.2	Elements .....	113
3.1.4.1.2.1	Activate .....	113
3.1.4.1.2.2	ActivateResponse .....	113
3.1.4.1.3	Complex Types .....	114
3.1.4.1.4	Simple Types .....	114
3.1.4.1.5	Attributes .....	114
3.1.4.1.6	Groups .....	114
3.1.4.1.7	Attribute Groups .....	114
3.1.4.2	AddAssociationReferenceToAssociationGroup .....	114
3.1.4.2.1	Messages .....	116
3.1.4.2.1.1	BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage .....	116

3.1.4.2.1.2	BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage .....	116
3.1.4.2.2	Elements .....	116
3.1.4.2.2.1	AddAssociationReferenceToAssociationGroup .....	117
3.1.4.2.2.2	AddAssociationReferenceToAssociationGroupResponse .....	117
3.1.4.2.3	Complex Types .....	117
3.1.4.2.4	Simple Types .....	117
3.1.4.2.5	Attributes .....	118
3.1.4.2.6	Groups .....	118
3.1.4.2.7	Attribute Groups .....	118
3.1.4.3	AddEntityToModel .....	118
3.1.4.3.1	Messages .....	119
3.1.4.3.1.1	BusinessDataCatalogSharedService_AddEntityToModel_InputMessage .....	119
3.1.4.3.1.2	BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage .....	119
3.1.4.3.2	Elements .....	119
3.1.4.3.2.1	AddEntityToModel .....	120
3.1.4.3.2.2	AddEntityToModelResponse .....	120
3.1.4.3.3	Complex Types .....	120
3.1.4.3.4	Simple Types .....	120
3.1.4.3.5	Attributes .....	120
3.1.4.3.6	Groups .....	120
3.1.4.3.7	Attribute Groups .....	121
3.1.4.4	BulkSwitchActiveOrValidate .....	121
3.1.4.4.1	Messages .....	122
3.1.4.4.1.1	BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage .....	122
3.1.4.4.1.2	BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage .....	123
3.1.4.4.2	Elements .....	123
3.1.4.4.2.1	BulkSwitchActiveOrValidate .....	123
3.1.4.4.2.2	BulkSwitchActiveOrValidateResponse .....	124
3.1.4.4.3	Complex Types .....	124
3.1.4.4.3.1	ArrayOfActivationErrorRecordStruct .....	124
3.1.4.4.3.2	ActivationErrorRecordStruct .....	125
3.1.4.4.4	Simple Types .....	128
3.1.4.4.5	Attributes .....	128
3.1.4.4.6	Groups .....	129
3.1.4.4.7	Attribute Groups .....	129
3.1.4.5	CheckPathInMethodInstances .....	129
3.1.4.5.1	Messages .....	130
3.1.4.5.1.1	BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage .....	130
3.1.4.5.1.2	BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage .....	130
3.1.4.5.2	Elements .....	130
3.1.4.5.2.1	CheckPathInMethodInstances .....	131
3.1.4.5.2.2	CheckPathInMethodInstancesResponse .....	131
3.1.4.5.3	Complex Types .....	132
3.1.4.5.4	Simple Types .....	132
3.1.4.5.5	Attributes .....	132
3.1.4.5.6	Groups .....	132

3.1.4.5.7	Attribute Groups.....	132
3.1.4.6	ClearLocalizedNames.....	132
3.1.4.6.1	Messages .....	133
3.1.4.6.1.1	BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage .....	134
3.1.4.6.1.2	BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage.....	134
3.1.4.6.2	Elements.....	134
3.1.4.6.2.1	ClearLocalizedNames.....	134
3.1.4.6.2.2	ClearLocalizedNamesResponse .....	135
3.1.4.6.3	Complex Types .....	135
3.1.4.6.4	Simple Types .....	135
3.1.4.6.5	Attributes .....	135
3.1.4.6.6	Groups.....	135
3.1.4.6.7	Attribute Groups.....	135
3.1.4.7	ClearProperties .....	135
3.1.4.7.1	Messages .....	136
3.1.4.7.1.1	BusinessDataCatalogSharedService_ClearProperties_InputMessage .....	137
3.1.4.7.1.2	BusinessDataCatalogSharedService_ClearProperties_OutputMessage.....	137
3.1.4.7.2	Elements.....	137
3.1.4.7.2.1	ClearProperties.....	137
3.1.4.7.2.2	ClearPropertiesResponse.....	138
3.1.4.7.3	Complex Types .....	138
3.1.4.7.4	Simple Types .....	138
3.1.4.7.5	Attributes .....	138
3.1.4.7.6	Groups.....	138
3.1.4.7.7	Attribute Groups.....	138
3.1.4.8	CopyAclAcrossChildren.....	138
3.1.4.8.1	Messages .....	140
3.1.4.8.1.1	BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage.....	140
3.1.4.8.1.2	BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage.....	140
3.1.4.8.2	Elements.....	140
3.1.4.8.2.1	CopyAclAcrossChildren .....	141
3.1.4.8.2.2	CopyAclAcrossChildrenResponse .....	141
3.1.4.8.3	Complex Types .....	141
3.1.4.8.4	Simple Types .....	141
3.1.4.8.5	Attributes .....	141
3.1.4.8.6	Groups.....	141
3.1.4.8.7	Attribute Groups.....	141
3.1.4.9	CopyAclAcrossChildrenForSetting .....	141
3.1.4.9.1	Messages .....	143
3.1.4.9.1.1	BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage.....	143
3.1.4.9.1.2	BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage.....	144
3.1.4.9.2	Elements.....	144
3.1.4.9.2.1	CopyAclAcrossChildrenForSetting .....	144
3.1.4.9.2.2	CopyAclAcrossChildrenForSettingResponse.....	144
3.1.4.9.3	Complex Types .....	144
3.1.4.9.4	Simple Types .....	145



3.1.4.9.5	Attributes .....	145
3.1.4.9.6	Groups .....	145
3.1.4.9.7	Attribute Groups .....	145
3.1.4.10	CopyAclToSetting .....	145
3.1.4.10.1	Messages .....	146
3.1.4.10.1.1	BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage .....	146
3.1.4.10.1.2	BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage .....	147
3.1.4.10.2	Elements .....	147
3.1.4.10.2.1	CopyAclToSetting .....	147
3.1.4.10.2.2	CopyAclToSettingResponse .....	147
3.1.4.10.3	Complex Types .....	148
3.1.4.10.4	Simple Types .....	148
3.1.4.10.5	Attributes .....	148
3.1.4.10.6	Groups .....	148
3.1.4.10.7	Attribute Groups .....	148
3.1.4.11	Deactivate .....	148
3.1.4.11.1	Messages .....	150
3.1.4.11.1.1	BusinessDataCatalogSharedService_Deactivate_InputMessage .....	150
3.1.4.11.1.2	BusinessDataCatalogSharedService_Deactivate_OutputMessage .....	151
3.1.4.11.2	Elements .....	151
3.1.4.11.2.1	Deactivate .....	151
3.1.4.11.2.2	DeactivateResponse .....	151
3.1.4.11.3	Complex Types .....	151
3.1.4.11.4	Simple Types .....	152
3.1.4.11.5	Attributes .....	152
3.1.4.11.6	Groups .....	152
3.1.4.11.7	Attribute Groups .....	152
3.1.4.12	Delete .....	152
3.1.4.12.1	Messages .....	154
3.1.4.12.1.1	BusinessDataCatalogSharedService_Delete_InputMessage .....	154
3.1.4.12.1.2	BusinessDataCatalogSharedService_Delete_OutputMessage .....	155
3.1.4.12.2	Elements .....	155
3.1.4.12.2.1	Delete .....	155
3.1.4.12.2.2	DeleteResponse .....	155
3.1.4.12.3	Complex Types .....	155
3.1.4.12.4	Simple Types .....	156
3.1.4.12.5	Attributes .....	156
3.1.4.12.6	Groups .....	156
3.1.4.12.7	Attribute Groups .....	156
3.1.4.13	DeleteAssociationReferenceFromAssociationGroup .....	156
3.1.4.13.1	Messages .....	158
3.1.4.13.1.1	BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAs sociationGroup_InputMessage .....	158
3.1.4.13.1.2	BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAs sociationGroup_OutputMessage .....	159
3.1.4.13.2	Elements .....	159
3.1.4.13.2.1	DeleteAssociationReferenceFromAssociationGroup .....	159
3.1.4.13.2.2	DeleteAssociationReferenceFromAssociationGroupResponse .....	159
3.1.4.13.3	Complex Types .....	160
3.1.4.13.4	Simple Types .....	160
3.1.4.13.5	Attributes .....	160
3.1.4.13.6	Groups .....	160
3.1.4.13.7	Attribute Groups .....	160
3.1.4.14	DeleteDefaultValueForTypeDescriptor .....	160

3.1.4.14.1	Messages .....	161
3.1.4.14.1.1	BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage .....	162
3.1.4.14.1.2	BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage .....	162
3.1.4.14.2	Elements .....	162
3.1.4.14.2.1	DeleteDefaultValueForTypeDescriptor .....	162
3.1.4.14.2.2	DeleteDefaultValueForTypeDescriptorResponse .....	163
3.1.4.14.3	Complex Types .....	163
3.1.4.14.4	Simple Types .....	163
3.1.4.14.5	Attributes .....	163
3.1.4.14.6	Groups .....	163
3.1.4.14.7	Attribute Groups .....	163
3.1.4.15	DeleteNoCascade .....	163
3.1.4.15.1	Messages .....	166
3.1.4.15.1.1	BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage .....	166
3.1.4.15.1.2	BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage .....	166
3.1.4.15.2	Elements .....	166
3.1.4.15.2.1	DeleteNoCascade .....	167
3.1.4.15.2.2	DeleteNoCascadeResponse .....	167
3.1.4.15.3	Complex Types .....	167
3.1.4.15.4	Simple Types .....	167
3.1.4.15.5	Attributes .....	167
3.1.4.15.6	Groups .....	167
3.1.4.15.7	Attribute Groups .....	167
3.1.4.16	DeleteProxyAssemblyForLobSystem .....	167
3.1.4.16.1	Messages .....	169
3.1.4.16.1.1	BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage .....	169
3.1.4.16.1.2	BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage .....	169
3.1.4.16.2	Elements .....	169
3.1.4.16.2.1	DeleteProxyAssemblyForLobSystem .....	170
3.1.4.16.2.2	DeleteProxyAssemblyForLobSystemResponse .....	170
3.1.4.16.3	Complex Types .....	170
3.1.4.16.4	Simple Types .....	170
3.1.4.16.5	Attributes .....	170
3.1.4.16.6	Groups .....	170
3.1.4.16.7	Attribute Groups .....	170
3.1.4.17	EntityCreate .....	171
3.1.4.17.1	Messages .....	172
3.1.4.17.1.1	BusinessDataCatalogSharedService_EntityCreate_InputMessage .....	172
3.1.4.17.1.2	BusinessDataCatalogSharedService_EntityCreate_OutputMessage .....	173
3.1.4.17.2	Elements .....	173
3.1.4.17.2.1	EntityCreate .....	173
3.1.4.17.2.2	EntityCreateResponse .....	173
3.1.4.17.3	Complex Types .....	174
3.1.4.17.4	Simple Types .....	174
3.1.4.17.5	Attributes .....	174
3.1.4.17.6	Groups .....	174
3.1.4.17.7	Attribute Groups .....	174
3.1.4.18	ExportPackage .....	174

3.1.4.18.1	Messages .....	176
3.1.4.18.1.1	BusinessDataCatalogSharedService_ExportPackage_InputMessage .....	176
3.1.4.18.1.2	BusinessDataCatalogSharedService_ExportPackage_OutputMessage .....	176
3.1.4.18.2	Elements .....	176
3.1.4.18.2.1	ExportPackage .....	176
3.1.4.18.2.2	ExportPackageResponse .....	177
3.1.4.18.3	Complex Types .....	177
3.1.4.18.4	Simple Types .....	177
3.1.4.18.5	Attributes .....	178
3.1.4.18.6	Groups .....	178
3.1.4.18.7	Attribute Groups .....	178
3.1.4.19	GenerateProxyAssemblyForLobSystem .....	178
3.1.4.19.1	Messages .....	179
3.1.4.19.1.1	BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage .....	179
3.1.4.19.1.2	BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage .....	180
3.1.4.19.2	Elements .....	180
3.1.4.19.2.1	GenerateProxyAssemblyForLobSystem .....	180
3.1.4.19.2.2	GenerateProxyAssemblyForLobSystemResponse .....	180
3.1.4.19.3	Complex Types .....	181
3.1.4.19.4	Simple Types .....	181
3.1.4.19.5	Attributes .....	181
3.1.4.19.6	Groups .....	181
3.1.4.19.7	Attribute Groups .....	181
3.1.4.20	GetAccessControlEntries .....	181
3.1.4.20.1	Messages .....	182
3.1.4.20.1.1	BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage .....	183
3.1.4.20.1.2	BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage .....	183
3.1.4.20.2	Elements .....	183
3.1.4.20.2.1	GetAccessControlEntries .....	183
3.1.4.20.2.2	GetAccessControlEntriesResponse .....	184
3.1.4.20.3	Complex Types .....	184
3.1.4.20.4	Simple Types .....	184
3.1.4.20.5	Attributes .....	184
3.1.4.20.6	Groups .....	184
3.1.4.20.7	Attribute Groups .....	184
3.1.4.21	GetActionById .....	184
3.1.4.21.1	Messages .....	185
3.1.4.21.1.1	BusinessDataCatalogSharedService_GetActionById_InputMessage .....	186
3.1.4.21.1.2	BusinessDataCatalogSharedService_GetActionById_OutputMessage .....	186
3.1.4.21.2	Elements .....	186
3.1.4.21.2.1	GetActionById .....	186
3.1.4.21.2.2	GetActionByIdResponse .....	186
3.1.4.21.3	Complex Types .....	187
3.1.4.21.4	Simple Types .....	187
3.1.4.21.5	Attributes .....	187
3.1.4.21.6	Groups .....	187
3.1.4.21.7	Attribute Groups .....	187
3.1.4.22	GetActionParameterById .....	187
3.1.4.22.1	Messages .....	188

3.1.4.22.1.1	BusinessDataCatalogSharedService_GetActionParameterById_InputMessage.....	189
3.1.4.22.1.2	BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage .....	189
3.1.4.22.2	Elements .....	189
3.1.4.22.2.1	GetActionParameterById.....	189
3.1.4.22.2.2	GetActionParameterByIdResponse .....	190
3.1.4.22.3	Complex Types .....	190
3.1.4.22.4	Simple Types .....	190
3.1.4.22.5	Attributes .....	190
3.1.4.22.6	Groups.....	190
3.1.4.22.7	Attribute Groups.....	190
3.1.4.23	GetActionParametersForAction.....	190
3.1.4.23.1	Messages .....	191
3.1.4.23.1.1	BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage .....	192
3.1.4.23.1.2	BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage.....	192
3.1.4.23.2	Elements .....	192
3.1.4.23.2.1	GetActionParametersForAction.....	192
3.1.4.23.2.2	GetActionParametersForActionResponse .....	193
3.1.4.23.3	Complex Types .....	193
3.1.4.23.3.1	ArrayOfActionParameterStruct.....	193
3.1.4.23.4	Simple Types .....	193
3.1.4.23.5	Attributes .....	194
3.1.4.23.6	Groups.....	194
3.1.4.23.7	Attribute Groups.....	194
3.1.4.24	GetActionsForEntity.....	194
3.1.4.24.1	Messages .....	195
3.1.4.24.1.1	BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage .....	195
3.1.4.24.1.2	BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage .....	195
3.1.4.24.2	Elements.....	195
3.1.4.24.2.1	GetActionsForEntity.....	196
3.1.4.24.2.2	GetActionsForEntityResponse .....	196
3.1.4.24.3	Complex Types .....	196
3.1.4.24.3.1	ArrayOfActionStruct .....	196
3.1.4.24.4	Simple Types .....	197
3.1.4.24.5	Attributes .....	197
3.1.4.24.6	Groups.....	197
3.1.4.24.7	Attribute Groups.....	197
3.1.4.25	GetAllLocalizedNames.....	197
3.1.4.25.1	Messages .....	198
3.1.4.25.1.1	BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage.....	198
3.1.4.25.1.2	BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage .....	199
3.1.4.25.2	Elements.....	199
3.1.4.25.2.1	GetAllLocalizedNames.....	199
3.1.4.25.2.2	GetAllLocalizedNamesResponse .....	200

3.1.4.25.3	Complex Types .....	200
3.1.4.25.4	Simple Types .....	200
3.1.4.25.5	Attributes .....	200
3.1.4.25.6	Groups .....	200
3.1.4.25.7	Attribute Groups .....	200
3.1.4.26	GetAllLocalizedNamesForMetadataObjectStruct .....	200
3.1.4.26.1	Messages .....	202
3.1.4.26.1.1	BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage .....	202
3.1.4.26.1.2	BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage .....	202
3.1.4.26.2	Elements .....	202
3.1.4.26.2.1	GetAllLocalizedNamesForMetadataObjectStruct .....	203
3.1.4.26.2.2	GetAllLocalizedNamesForMetadataObjectStructResponse .....	203
3.1.4.26.3	Complex Types .....	204
3.1.4.26.4	Simple Types .....	204
3.1.4.26.5	Attributes .....	204
3.1.4.26.6	Groups .....	204
3.1.4.26.7	Attribute Groups .....	204
3.1.4.27	GetAllPartitionIds .....	204
3.1.4.27.1	Messages .....	205
3.1.4.27.1.1	BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage .....	205
3.1.4.27.1.2	BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage .....	205
3.1.4.27.2	Elements .....	205
3.1.4.27.2.1	GetAllPartitionIds .....	205
3.1.4.27.2.2	GetAllPartitionIdsResponse .....	206
3.1.4.27.3	Complex Types .....	206
3.1.4.27.3.1	ArrayOfguid .....	206
3.1.4.27.4	Simple Types .....	206
3.1.4.27.5	Attributes .....	206
3.1.4.27.6	Groups .....	206
3.1.4.27.7	Attribute Groups .....	206
3.1.4.28	GetAllProperties .....	207
3.1.4.28.1	Messages .....	208
3.1.4.28.1.1	BusinessDataCatalogSharedService_GetAllProperties_InputMessage .....	208
3.1.4.28.1.2	BusinessDataCatalogSharedService_GetAllProperties_OutputMessage .....	208
3.1.4.28.2	Elements .....	208
3.1.4.28.2.1	GetAllProperties .....	209
3.1.4.28.2.2	GetAllPropertiesResponse .....	209
3.1.4.28.3	Complex Types .....	209
3.1.4.28.4	Simple Types .....	209
3.1.4.28.5	Attributes .....	210
3.1.4.28.6	Groups .....	210
3.1.4.28.7	Attribute Groups .....	210
3.1.4.29	GetAllPropertiesForMetadataObjectStruct .....	210
3.1.4.29.1	Messages .....	211
3.1.4.29.1.1	BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage .....	212
3.1.4.29.1.2	BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage .....	212
3.1.4.29.2	Elements .....	212

3.1.4.29.2.1	GetAllPropertiesForMetadataObjectStruct .....	212
3.1.4.29.2.2	GetAllPropertiesForMetadataObjectStructResponse.....	213
3.1.4.29.3	Complex Types .....	213
3.1.4.29.4	Simple Types .....	213
3.1.4.29.5	Attributes .....	213
3.1.4.29.6	Groups.....	213
3.1.4.29.7	Attribute Groups.....	213
3.1.4.30	GetAssociationById .....	213
3.1.4.30.1	Messages .....	214
3.1.4.30.1.1	BusinessDataCatalogSharedService_GetAssociationById_InputMessage .....	215
3.1.4.30.1.2	BusinessDataCatalogSharedService_GetAssociationById_OutputMessage .....	215
3.1.4.30.2	Elements.....	215
3.1.4.30.2.1	GetAssociationById .....	215
3.1.4.30.2.2	GetAssociationByIdResponse .....	216
3.1.4.30.3	Complex Types .....	216
3.1.4.30.4	Simple Types .....	216
3.1.4.30.5	Attributes .....	216
3.1.4.30.6	Groups.....	216
3.1.4.30.7	Attribute Groups.....	216
3.1.4.31	GetAssociationGroupById .....	216
3.1.4.31.1	Messages .....	218
3.1.4.31.1.1	BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage .....	218
3.1.4.31.1.2	BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage .....	218
3.1.4.31.2	Elements.....	218
3.1.4.31.2.1	GetAssociationGroupById.....	218
3.1.4.31.2.2	GetAssociationGroupByIdResponse .....	219
3.1.4.31.3	Complex Types .....	219
3.1.4.31.4	Simple Types .....	219
3.1.4.31.5	Attributes .....	219
3.1.4.31.6	Groups.....	219
3.1.4.31.7	Attribute Groups.....	219
3.1.4.32	GetAssociationGroupsForEntity .....	220
3.1.4.32.1	Messages .....	221
3.1.4.32.1.1	BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage .....	221
3.1.4.32.1.2	BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage.....	221
3.1.4.32.2	Elements.....	221
3.1.4.32.2.1	GetAssociationGroupsForEntity .....	222
3.1.4.32.2.2	GetAssociationGroupsForEntityResponse.....	222
3.1.4.32.3	Complex Types .....	222
3.1.4.32.3.1	ArrayOfAssociationGroupStruct.....	223
3.1.4.32.4	Simple Types .....	223
3.1.4.32.5	Attributes .....	223
3.1.4.32.6	Groups.....	223
3.1.4.32.7	Attribute Groups.....	223
3.1.4.33	GetAssociationMembersInRole .....	223
3.1.4.33.1	Messages .....	224

3.1.4.33.1.1	BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage .....	225
3.1.4.33.1.2	BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage.....	225
3.1.4.33.2	Elements .....	225
3.1.4.33.2.1	GetAssociationMembersInRole .....	225
3.1.4.33.2.2	GetAssociationMembersInRoleResponse.....	226
3.1.4.33.3	Complex Types .....	226
3.1.4.33.3.1	ArrayOfAssociationMemberStruct .....	226
3.1.4.33.3.2	AssociationMemberStruct.....	227
3.1.4.33.4	Simple Types .....	227
3.1.4.33.5	Attributes .....	227
3.1.4.33.6	Groups.....	228
3.1.4.33.7	Attribute Groups.....	228
3.1.4.34	GetAssociationReferencesForAssociationGroup.....	228
3.1.4.34.1	Messages .....	229
3.1.4.34.1.1	BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage .....	229
3.1.4.34.1.2	BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage .....	230
3.1.4.34.2	Elements .....	230
3.1.4.34.2.1	GetAssociationReferencesForAssociationGroup.....	230
3.1.4.34.2.2	GetAssociationReferencesForAssociationGroupResponse .....	230
3.1.4.34.3	Complex Types .....	231
3.1.4.34.3.1	ArrayOfAssociationReferenceStruct .....	231
3.1.4.34.4	Simple Types .....	231
3.1.4.34.5	Attributes .....	231
3.1.4.34.6	Groups.....	231
3.1.4.34.7	Attribute Groups.....	231
3.1.4.35	GetAssociationsForDataClass .....	231
3.1.4.35.1	Messages .....	233
3.1.4.35.1.1	BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage .....	233
3.1.4.35.1.2	BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage .....	233
3.1.4.35.2	Elements .....	233
3.1.4.35.2.1	GetAssociationsForDataClass .....	234
3.1.4.35.2.2	GetAssociationsForDataClassResponse.....	234
3.1.4.35.3	Complex Types .....	234
3.1.4.35.4	Simple Types .....	234
3.1.4.35.5	Attributes .....	234
3.1.4.35.6	Groups.....	234
3.1.4.35.7	Attribute Groups.....	234
3.1.4.36	GetAssociationsForEntityAndRole .....	235
3.1.4.36.1	Messages .....	236
3.1.4.36.1.1	BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage.....	236
3.1.4.36.1.2	BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage.....	236
3.1.4.36.2	Elements .....	236

3.1.4.36.2.1	GetAssociationsForEntityAndRole .....	237
3.1.4.36.2.2	GetAssociationsForEntityAndRoleResponse .....	237
3.1.4.36.3	Complex Types .....	238
3.1.4.36.4	Simple Types .....	238
3.1.4.36.5	Attributes .....	238
3.1.4.36.6	Groups .....	238
3.1.4.36.7	Attribute Groups .....	238
3.1.4.37	GetAssociationsForMethod .....	238
3.1.4.37.1	Messages .....	239
3.1.4.37.1.1	BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage .....	240
3.1.4.37.1.2	BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage .....	240
3.1.4.37.2	Elements .....	240
3.1.4.37.2.1	GetAssociationsForMethod .....	240
3.1.4.37.2.2	GetAssociationsForMethodResponse .....	241
3.1.4.37.3	Complex Types .....	241
3.1.4.37.4	Simple Types .....	241
3.1.4.37.5	Attributes .....	241
3.1.4.37.6	Groups .....	241
3.1.4.37.7	Attribute Groups .....	241
3.1.4.38	GetCacheInvalidationRecordsSince .....	241
3.1.4.38.1	Messages .....	242
3.1.4.38.1.1	BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage .....	243
3.1.4.38.1.2	BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage .....	243
3.1.4.38.2	Elements .....	243
3.1.4.38.2.1	GetCacheInvalidationRecordsSince .....	243
3.1.4.38.2.2	GetCacheInvalidationRecordsSinceResponse .....	244
3.1.4.38.3	Complex Types .....	244
3.1.4.38.3.1	ArrayOfCacheInvalidationRecordStruct .....	244
3.1.4.38.3.2	CacheInvalidationRecordStruct .....	244
3.1.4.38.4	Simple Types .....	245
3.1.4.38.5	Attributes .....	245
3.1.4.38.6	Groups .....	245
3.1.4.38.7	Attribute Groups .....	245
3.1.4.39	GetChildTypeDescriptorsForTypeDescriptor .....	245
3.1.4.39.1	Messages .....	246
3.1.4.39.1.1	BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage .....	247
3.1.4.39.1.2	BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage .....	247
3.1.4.39.2	Elements .....	247
3.1.4.39.2.1	GetChildTypeDescriptorsForTypeDescriptor .....	247
3.1.4.39.2.2	GetChildTypeDescriptorsForTypeDescriptorResponse .....	248
3.1.4.39.3	Complex Types .....	248
3.1.4.39.4	Simple Types .....	248
3.1.4.39.5	Attributes .....	248
3.1.4.39.6	Groups .....	248
3.1.4.39.7	Attribute Groups .....	248
3.1.4.40	GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor .....	248



3.1.4.40.1	Messages .....	250
3.1.4.40.1.1	BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage .....	250
3.1.4.40.1.2	BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage .....	250
3.1.4.40.2	Elements .....	251
3.1.4.40.2.1	GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor .....	251
3.1.4.40.2.2	GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse .....	251
3.1.4.40.3	Complex Types .....	251
3.1.4.40.4	Simple Types .....	252
3.1.4.40.5	Attributes .....	252
3.1.4.40.6	Groups .....	252
3.1.4.40.7	Attribute Groups .....	252
3.1.4.41	GetDataClassById .....	252
3.1.4.41.1	Messages .....	253
3.1.4.41.1.1	BusinessDataCatalogSharedService_GetDataClassById_InputMessage .....	253
3.1.4.41.1.2	BusinessDataCatalogSharedService_GetDataClassById_OutputMessage .....	253
3.1.4.41.2	Elements .....	254
3.1.4.41.2.1	GetDataClassById .....	254
3.1.4.41.2.2	GetDataClassByIdResponse .....	254
3.1.4.41.3	Complex Types .....	254
3.1.4.41.4	Simple Types .....	255
3.1.4.41.5	Attributes .....	255
3.1.4.41.6	Groups .....	255
3.1.4.41.7	Attribute Groups .....	255
3.1.4.42	GetDataClassesForSystem .....	255
3.1.4.42.1	Messages .....	256
3.1.4.42.1.1	BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage .....	256
3.1.4.42.1.2	BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage .....	257
3.1.4.42.2	Elements .....	257
3.1.4.42.2.1	GetDataClassesForSystem .....	257
3.1.4.42.2.2	GetDataClassesForSystemResponse .....	257
3.1.4.42.3	Complex Types .....	258
3.1.4.42.3.1	ArrayOfDataClassStruct .....	258
3.1.4.42.4	Simple Types .....	258
3.1.4.42.5	Attributes .....	258
3.1.4.42.6	Groups .....	258
3.1.4.42.7	Attribute Groups .....	258
3.1.4.43	GetDefaultValuesForTypeDescriptor .....	258
3.1.4.43.1	Messages .....	259
3.1.4.43.1.1	BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage .....	260
3.1.4.43.1.2	BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage .....	260
3.1.4.43.2	Elements .....	260
3.1.4.43.2.1	GetDefaultValuesForTypeDescriptor .....	260
3.1.4.43.2.2	GetDefaultValuesForTypeDescriptorResponse .....	261
3.1.4.43.3	Complex Types .....	261

3.1.4.43.3.1	ArrayOfDefaultValueStruct .....	261
3.1.4.43.4	Simple Types .....	261
3.1.4.43.5	Attributes .....	262
3.1.4.43.6	Groups .....	262
3.1.4.43.7	Attribute Groups .....	262
3.1.4.44	GetEntitiesForAssociationAndRole .....	262
3.1.4.44.1	Messages .....	263
3.1.4.44.1.1	BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage .....	263
3.1.4.44.1.2	BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage .....	264
3.1.4.44.2	Elements .....	264
3.1.4.44.2.1	GetEntitiesForAssociationAndRole .....	264
3.1.4.44.2.2	GetEntitiesForAssociationAndRoleResponse .....	265
3.1.4.44.3	Complex Types .....	265
3.1.4.44.4	Simple Types .....	265
3.1.4.44.5	Attributes .....	265
3.1.4.44.6	Groups .....	265
3.1.4.44.7	Attribute Groups .....	265
3.1.4.45	GetEntitiesForSystem .....	265
3.1.4.45.1	Messages .....	266
3.1.4.45.1.1	BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage .....	267
3.1.4.45.1.2	BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage .....	267
3.1.4.45.2	Elements .....	267
3.1.4.45.2.1	GetEntitiesForSystem .....	267
3.1.4.45.2.2	GetEntitiesForSystemResponse .....	268
3.1.4.45.3	Complex Types .....	268
3.1.4.45.4	Simple Types .....	268
3.1.4.45.5	Attributes .....	268
3.1.4.45.6	Groups .....	268
3.1.4.45.7	Attribute Groups .....	268
3.1.4.46	GetEntitiesLikeNameAndNamespace .....	268
3.1.4.46.1	Messages .....	270
3.1.4.46.1.1	BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage .....	270
3.1.4.46.1.2	BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage .....	270
3.1.4.46.2	Elements .....	271
3.1.4.46.2.1	GetEntitiesLikeNameAndNamespace .....	271
3.1.4.46.2.2	GetEntitiesLikeNameAndNamespaceResponse .....	272
3.1.4.46.3	Complex Types .....	272
3.1.4.46.4	Simple Types .....	272
3.1.4.46.5	Attributes .....	272
3.1.4.46.6	Groups .....	272
3.1.4.46.7	Attribute Groups .....	273
3.1.4.47	GetEntitiesReferencedByModelId .....	273
3.1.4.47.1	Messages .....	274
3.1.4.47.1.1	BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage .....	274

3.1.4.47.1.2	BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage .....	274
3.1.4.47.2	Elements .....	274
3.1.4.47.2.1	GetEntitiesReferencedByModelId .....	275
3.1.4.47.2.2	GetEntitiesReferencedByModelIdResponse .....	275
3.1.4.47.3	Complex Types .....	276
3.1.4.47.4	Simple Types .....	276
3.1.4.47.4.1	EntityConstants.EntitiesInModelQuery .....	276
3.1.4.47.5	Attributes .....	276
3.1.4.47.6	Groups .....	276
3.1.4.47.7	Attribute Groups .....	276
3.1.4.48	GetEntityById .....	277
3.1.4.48.1	Messages .....	278
3.1.4.48.1.1	BusinessDataCatalogSharedService_GetEntityById_InputMessage ..	278
3.1.4.48.1.2	BusinessDataCatalogSharedService_GetEntityById_OutputMessage	278
3.1.4.48.2	Elements .....	278
3.1.4.48.2.1	GetEntityById .....	278
3.1.4.48.2.2	GetEntityByIdResponse .....	279
3.1.4.48.3	Complex Types .....	279
3.1.4.48.4	Simple Types .....	279
3.1.4.48.5	Attributes .....	279
3.1.4.48.6	Groups .....	279
3.1.4.48.7	Attribute Groups .....	279
3.1.4.49	GetEntityCount .....	280
3.1.4.49.1	Messages .....	281
3.1.4.49.1.1	BusinessDataCatalogSharedService_GetEntityCount_InputMessage	281
3.1.4.49.1.2	BusinessDataCatalogSharedService_GetEntityCount_OutputMessage	281
3.1.4.49.2	Elements .....	281
3.1.4.49.2.1	GetEntityCount .....	281
3.1.4.49.2.2	GetEntityCountResponse .....	282
3.1.4.49.3	Complex Types .....	282
3.1.4.49.4	Simple Types .....	282
3.1.4.49.5	Attributes .....	282
3.1.4.49.6	Groups .....	282
3.1.4.49.7	Attribute Groups .....	282
3.1.4.50	GetEntityNameAndNamespacesForAssociationAndRole .....	282
3.1.4.50.1	Messages .....	284
3.1.4.50.1.1	BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage .....	284
3.1.4.50.1.2	BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage .....	284
3.1.4.50.2	Elements .....	284
3.1.4.50.2.1	GetEntityNameAndNamespacesForAssociationAndRole .....	285
3.1.4.50.2.2	GetEntityNameAndNamespacesForAssociationAndRoleResponse .....	285
3.1.4.50.3	Complex Types .....	286
3.1.4.50.4	Simple Types .....	286
3.1.4.50.5	Attributes .....	286
3.1.4.50.6	Groups .....	286
3.1.4.50.7	Attribute Groups .....	286
3.1.4.51	GetEntityWithNameAndNamespace .....	286
3.1.4.51.1	Messages .....	287
3.1.4.51.1.1	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage .....	288

3.1.4.51.1.2	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace _OutputMessage .....	288
3.1.4.51.2	Elements .....	288
3.1.4.51.2.1	GetEntityWithNameAndNamespace .....	288
3.1.4.51.2.2	GetEntityWithNameAndNamespaceResponse .....	289
3.1.4.51.3	Complex Types .....	289
3.1.4.51.4	Simple Types .....	289
3.1.4.51.5	Attributes .....	289
3.1.4.51.6	Groups .....	289
3.1.4.51.7	Attribute Groups .....	289
3.1.4.52	GetEntityWithNameAndNamespaceAndVersion .....	289
3.1.4.52.1	Messages .....	291
3.1.4.52.1.1	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace AndVersion_InputMessage .....	291
3.1.4.52.1.2	BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace AndVersion_OutputMessage .....	291
3.1.4.52.2	Elements .....	291
3.1.4.52.2.1	GetEntityWithNameAndNamespaceAndVersion .....	292
3.1.4.52.2.2	GetEntityWithNameAndNamespaceAndVersionResponse .....	292
3.1.4.52.3	Complex Types .....	292
3.1.4.52.4	Simple Types .....	293
3.1.4.52.5	Attributes .....	293
3.1.4.52.6	Groups .....	293
3.1.4.52.7	Attribute Groups .....	293
3.1.4.53	GetFieldTypeDescriptorsByMethodInstance .....	293
3.1.4.53.1	Messages .....	294
3.1.4.53.1.1	BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodI nstance_InputMessage .....	295
3.1.4.53.1.2	BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodI nstance_OutputMessage .....	295
3.1.4.53.2	Elements .....	295
3.1.4.53.2.1	GetFieldTypeDescriptorsByMethodInstance .....	295
3.1.4.53.2.2	GetFieldTypeDescriptorsByMethodInstanceResponse .....	296
3.1.4.53.3	Complex Types .....	296
3.1.4.53.4	Simple Types .....	296
3.1.4.53.5	Attributes .....	296
3.1.4.53.6	Groups .....	296
3.1.4.53.7	Attribute Groups .....	296
3.1.4.54	GetFilterDescriptorById .....	296
3.1.4.54.1	Messages .....	298
3.1.4.54.1.1	BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMess age .....	298
3.1.4.54.1.2	BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMes sage .....	298
3.1.4.54.2	Elements .....	298
3.1.4.54.2.1	GetFilterDescriptorById .....	299
3.1.4.54.2.2	GetFilterDescriptorByIdResponse .....	299
3.1.4.54.3	Complex Types .....	299
3.1.4.54.4	Simple Types .....	299
3.1.4.54.5	Attributes .....	299
3.1.4.54.6	Groups .....	299

3.1.4.54.7	Attribute Groups.....	300
3.1.4.55	GetFilterDescriptorsForMethod.....	300
3.1.4.55.1	Messages.....	301
3.1.4.55.1.1	BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage.....	301
3.1.4.55.1.2	BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage.....	301
3.1.4.55.2	Elements.....	301
3.1.4.55.2.1	GetFilterDescriptorsForMethod.....	302
3.1.4.55.2.2	GetFilterDescriptorsForMethodResponse.....	302
3.1.4.55.3	Complex Types.....	302
3.1.4.55.3.1	ArrayOfFilterDescriptorStruct.....	303
3.1.4.55.4	Simple Types.....	303
3.1.4.55.5	Attributes.....	303
3.1.4.55.6	Groups.....	303
3.1.4.55.7	Attribute Groups.....	303
3.1.4.56	GetIdentifierById.....	303
3.1.4.56.1	Messages.....	304
3.1.4.56.1.1	BusinessDataCatalogSharedService_GetIdentifierById_InputMessage.....	304
3.1.4.56.1.2	BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage.....	305
3.1.4.56.2	Elements.....	305
3.1.4.56.2.1	GetIdentifierById.....	305
3.1.4.56.2.2	GetIdentifierByIdResponse.....	305
3.1.4.56.3	Complex Types.....	306
3.1.4.56.4	Simple Types.....	306
3.1.4.56.5	Attributes.....	306
3.1.4.56.6	Groups.....	306
3.1.4.56.7	Attribute Groups.....	306
3.1.4.57	GetIdentifiersForEntity.....	306
3.1.4.57.1	Messages.....	307
3.1.4.57.1.1	BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage.....	308
3.1.4.57.1.2	BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage.....	308
3.1.4.57.2	Elements.....	308
3.1.4.57.2.1	GetIdentifiersForEntity.....	308
3.1.4.57.2.2	GetIdentifiersForEntityResponse.....	308
3.1.4.57.3	Complex Types.....	309
3.1.4.57.3.1	ArrayOfIdentifierStruct.....	309
3.1.4.57.4	Simple Types.....	309
3.1.4.57.5	Attributes.....	309
3.1.4.57.6	Groups.....	309
3.1.4.57.7	Attribute Groups.....	309
3.1.4.58	GetImportProgress.....	310
3.1.4.58.1	Messages.....	310
3.1.4.58.1.1	BusinessDataCatalogSharedService_GetImportProgress_InputMessage.....	310
3.1.4.58.1.2	BusinessDataCatalogSharedService_GetImportProgress_OutputMessage.....	310
3.1.4.58.2	Elements.....	311
3.1.4.58.2.1	GetImportProgress.....	311
3.1.4.58.2.2	GetImportProgressResponse.....	311

3.1.4.58.3	Complex Types .....	311
3.1.4.58.4	Simple Types .....	311
3.1.4.58.5	Attributes .....	311
3.1.4.58.6	Groups.....	312
3.1.4.58.7	Attribute Groups.....	312
3.1.4.59	GetLevelForTypeDescriptor.....	312
3.1.4.59.1	Messages .....	313
3.1.4.59.1.1	BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage .....	313
3.1.4.59.1.2	BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage .....	314
3.1.4.59.2	Elements.....	314
3.1.4.59.2.1	GetLevelForTypeDescriptor .....	314
3.1.4.59.2.2	GetLevelForTypeDescriptorResponse .....	314
3.1.4.59.3	Complex Types .....	315
3.1.4.59.4	Simple Types .....	315
3.1.4.59.5	Attributes .....	315
3.1.4.59.6	Groups.....	315
3.1.4.59.7	Attribute Groups.....	315
3.1.4.60	GetLobSystemAllAssembliesBytes .....	315
3.1.4.60.1	Messages .....	316
3.1.4.60.1.1	BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage.....	317
3.1.4.60.1.2	BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage.....	317
3.1.4.60.2	Elements.....	317
3.1.4.60.2.1	GetLobSystemAllAssembliesBytes .....	317
3.1.4.60.2.2	GetLobSystemAllAssembliesBytesResponse .....	318
3.1.4.60.3	Complex Types .....	318
3.1.4.60.3.1	ArrayOfbase64Binary .....	318
3.1.4.60.4	Simple Types .....	318
3.1.4.60.5	Attributes .....	319
3.1.4.60.6	Groups.....	319
3.1.4.60.7	Attribute Groups.....	319
3.1.4.61	GetLobSystemById.....	319
3.1.4.61.1	Messages .....	320
3.1.4.61.1.1	BusinessDataCatalogSharedService_GetLobSystemById_InputMessage .....	320
3.1.4.61.1.2	BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage .....	321
3.1.4.61.2	Elements.....	321
3.1.4.61.2.1	GetLobSystemById .....	321
3.1.4.61.2.2	GetLobSystemByIdResponse .....	321
3.1.4.61.3	Complex Types .....	322
3.1.4.61.4	Simple Types .....	322
3.1.4.61.5	Attributes .....	322
3.1.4.61.6	Groups.....	322
3.1.4.61.7	Attribute Groups.....	322
3.1.4.62	GetLobSystemByName .....	322
3.1.4.62.1	Messages .....	323
3.1.4.62.1.1	BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage.....	324

3.1.4.62.1.2	BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage	324
3.1.4.62.2	Elements	324
3.1.4.62.2.1	GetLobSystemByName	324
3.1.4.62.2.2	GetLobSystemByNameResponse	325
3.1.4.62.3	Complex Types	325
3.1.4.62.4	Simple Types	325
3.1.4.62.5	Attributes	325
3.1.4.62.6	Groups	325
3.1.4.62.7	Attribute Groups	325
3.1.4.63	GetLobSystemDataByLobSystem	325
3.1.4.63.1	Messages	326
3.1.4.63.1.1	BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage	327
3.1.4.63.1.2	BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage	327
3.1.4.63.2	Elements	327
3.1.4.63.2.1	GetLobSystemDataByLobSystem	327
3.1.4.63.2.2	GetLobSystemDataByLobSystemResponse	328
3.1.4.63.3	Complex Types	328
3.1.4.63.4	Simple Types	328
3.1.4.63.5	Attributes	328
3.1.4.63.6	Groups	328
3.1.4.63.7	Attribute Groups	328
3.1.4.64	GetLobSystemInstanceById	328
3.1.4.64.1	Messages	330
3.1.4.64.1.1	BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage	331
3.1.4.64.1.2	BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage	331
3.1.4.64.2	Elements	331
3.1.4.64.2.1	GetLobSystemInstanceById	331
3.1.4.64.2.2	GetLobSystemInstanceByIdResponse	331
3.1.4.64.3	Complex Types	332
3.1.4.64.4	Simple Types	332
3.1.4.64.5	Attributes	332
3.1.4.64.6	Groups	332
3.1.4.64.7	Attribute Groups	332
3.1.4.65	GetLobSystemInstancesForLobSystem	332
3.1.4.65.1	Messages	333
3.1.4.65.1.1	BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage	334
3.1.4.65.1.2	BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage	334
3.1.4.65.2	Elements	334
3.1.4.65.2.1	GetLobSystemInstancesForLobSystem	334
3.1.4.65.2.2	GetLobSystemInstancesForLobSystemResponse	335
3.1.4.65.3	Complex Types	335
3.1.4.65.3.1	ArrayOfLobSystemInstanceStruct	335
3.1.4.65.4	Simple Types	336
3.1.4.65.5	Attributes	336

3.1.4.65.6	Groups.....	336
3.1.4.65.7	Attribute Groups.....	336
3.1.4.66	GetLobSystemProxyAssemblyBytesByLobSystemId .....	336
3.1.4.66.1	Messages .....	337
3.1.4.66.1.1	BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage .....	338
3.1.4.66.1.2	BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage .....	338
3.1.4.66.2	Elements .....	338
3.1.4.66.2.1	GetLobSystemProxyAssemblyBytesByLobSystemId .....	338
3.1.4.66.2.2	GetLobSystemProxyAssemblyBytesByLobSystemIdResponse .....	339
3.1.4.66.3	Complex Types .....	339
3.1.4.66.4	Simple Types .....	339
3.1.4.66.5	Attributes .....	339
3.1.4.66.6	Groups.....	339
3.1.4.66.7	Attribute Groups.....	339
3.1.4.67	GetLobSystemsLikeName .....	340
3.1.4.67.1	Messages .....	341
3.1.4.67.1.1	BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage .....	341
3.1.4.67.1.2	BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage .....	341
3.1.4.67.2	Elements.....	341
3.1.4.67.2.1	GetLobSystemsLikeName.....	342
3.1.4.67.2.2	GetLobSystemsLikeNameResponse .....	342
3.1.4.67.3	Complex Types .....	343
3.1.4.67.4	Simple Types .....	343
3.1.4.67.5	Attributes .....	343
3.1.4.67.6	Groups.....	343
3.1.4.67.7	Attribute Groups.....	343
3.1.4.68	GetLobSystemsReferencedByEntitiesAssociatedWithModel.....	343
3.1.4.68.1	Messages .....	344
3.1.4.68.1.1	BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage .....	345
3.1.4.68.1.2	BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage .....	345
3.1.4.68.2	Elements.....	345
3.1.4.68.2.1	GetLobSystemsReferencedByEntitiesAssociatedWithModel.....	345
3.1.4.68.2.2	GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse .....	346
3.1.4.68.3	Complex Types .....	346
3.1.4.68.4	Simple Types .....	346
3.1.4.68.4.1	LobSystemConstants.LobSystemsInModelQuery .....	346
3.1.4.68.5	Attributes .....	347
3.1.4.68.6	Groups.....	347
3.1.4.68.7	Attribute Groups.....	347
3.1.4.69	GetMethodById.....	347
3.1.4.69.1	Messages .....	348
3.1.4.69.1.1	BusinessDataCatalogSharedService_GetMethodById_InputMessage .....	349
3.1.4.69.1.2	BusinessDataCatalogSharedService_GetMethodById_OutputMessage .....	349
3.1.4.69.2	Elements.....	349
3.1.4.69.2.1	GetMethodById.....	349



3.1.4.69.2.2	GetMethodByIdResponse .....	350
3.1.4.69.3	Complex Types .....	350
3.1.4.69.4	Simple Types .....	350
3.1.4.69.5	Attributes .....	350
3.1.4.69.6	Groups .....	350
3.1.4.69.7	Attribute Groups.....	350
3.1.4.70	GetMethodInstanceById.....	350
3.1.4.70.1	Messages .....	351
3.1.4.70.1.1	BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage .....	352
3.1.4.70.1.2	BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage .....	352
3.1.4.70.2	Elements.....	352
3.1.4.70.2.1	GetMethodInstanceById.....	352
3.1.4.70.2.2	GetMethodInstanceByIdResponse .....	353
3.1.4.70.3	Complex Types .....	353
3.1.4.70.4	Simple Types .....	353
3.1.4.70.5	Attributes .....	353
3.1.4.70.6	Groups.....	353
3.1.4.70.7	Attribute Groups.....	353
3.1.4.71	GetMethodInstancesForDataClass .....	353
3.1.4.71.1	Messages .....	355
3.1.4.71.1.1	BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage.....	355
3.1.4.71.1.2	BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage.....	355
3.1.4.71.2	Elements.....	355
3.1.4.71.2.1	GetMethodInstancesForDataClass .....	355
3.1.4.71.2.2	GetMethodInstancesForDataClassResponse .....	356
3.1.4.71.3	Complex Types .....	356
3.1.4.71.4	Simple Types .....	356
3.1.4.71.5	Attributes .....	356
3.1.4.71.6	Groups.....	356
3.1.4.71.7	Attribute Groups.....	356
3.1.4.72	GetMethodInstancesForMethod .....	357
3.1.4.72.1	Messages .....	358
3.1.4.72.1.1	BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage .....	358
3.1.4.72.1.2	BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage .....	358
3.1.4.72.2	Elements.....	358
3.1.4.72.2.1	GetMethodInstancesForMethod .....	359
3.1.4.72.2.2	GetMethodInstancesForMethodResponse.....	359
3.1.4.72.3	Complex Types .....	359
3.1.4.72.4	Simple Types .....	359
3.1.4.72.5	Attributes .....	359
3.1.4.72.6	Groups.....	359
3.1.4.72.7	Attribute Groups.....	360
3.1.4.73	GetMethodsForDataClass .....	360
3.1.4.73.1	Messages .....	361

3.1.4.73.1.1	BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage.....	361
3.1.4.73.1.2	BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage .....	361
3.1.4.73.2	Elements .....	361
3.1.4.73.2.1	GetMethodsForDataClass .....	362
3.1.4.73.2.2	GetMethodsForDataClassResponse .....	362
3.1.4.73.3	Complex Types .....	362
3.1.4.73.3.1	ArrayOfMethodStruct.....	362
3.1.4.73.4	Simple Types .....	363
3.1.4.73.5	Attributes .....	363
3.1.4.73.6	Groups.....	363
3.1.4.73.7	Attribute Groups.....	363
3.1.4.74	GetModelById .....	363
3.1.4.74.1	Messages .....	364
3.1.4.74.1.1	BusinessDataCatalogSharedService_GetModelById_InputMessage ..	364
3.1.4.74.1.2	BusinessDataCatalogSharedService_GetModelById_OutputMessage	365
3.1.4.74.2	Elements .....	365
3.1.4.74.2.1	GetModelById.....	365
3.1.4.74.2.2	GetModelByIdResponse .....	365
3.1.4.74.3	Complex Types .....	366
3.1.4.74.4	Simple Types .....	366
3.1.4.74.5	Attributes .....	366
3.1.4.74.6	Groups.....	366
3.1.4.74.7	Attribute Groups.....	366
3.1.4.75	GetModelByName.....	366
3.1.4.75.1	Messages .....	367
3.1.4.75.1.1	BusinessDataCatalogSharedService_GetModelByName_InputMessage .....	367
3.1.4.75.1.2	BusinessDataCatalogSharedService_GetModelByName_OutputMessage .....	368
3.1.4.75.2	Elements .....	368
3.1.4.75.2.1	GetModelByName .....	368
3.1.4.75.2.2	GetModelByNameResponse .....	368
3.1.4.75.3	Complex Types .....	368
3.1.4.75.4	Simple Types .....	369
3.1.4.75.5	Attributes .....	369
3.1.4.75.6	Groups.....	369
3.1.4.75.7	Attribute Groups.....	369
3.1.4.76	GetModelsByEntityId .....	369
3.1.4.76.1	Messages .....	370
3.1.4.76.1.1	BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage .....	370
3.1.4.76.1.2	BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage .....	370
3.1.4.76.2	Elements.....	371
3.1.4.76.2.1	GetModelsByEntityId .....	371
3.1.4.76.2.2	GetModelsByEntityIdResponse .....	371
3.1.4.76.3	Complex Types .....	371
3.1.4.76.4	Simple Types .....	371
3.1.4.76.5	Attributes .....	372
3.1.4.76.6	Groups.....	372
3.1.4.76.7	Attribute Groups.....	372
3.1.4.77	GetModelsByName .....	372

3.1.4.77.1	Messages .....	373
3.1.4.77.1.1	BusinessDataCatalogSharedService_GetModelsByName_InputMessage .....	373
3.1.4.77.1.2	BusinessDataCatalogSharedService_GetModelsByName_OutputMessage .....	373
3.1.4.77.2	Elements .....	374
3.1.4.77.2.1	GetModelsByName .....	374
3.1.4.77.2.2	GetModelsByNameResponse .....	374
3.1.4.77.3	Complex Types .....	375
3.1.4.77.4	Simple Types .....	375
3.1.4.77.5	Attributes .....	375
3.1.4.77.6	Groups .....	375
3.1.4.77.7	Attribute Groups .....	375
3.1.4.78	GetParameterById .....	375
3.1.4.78.1	Messages .....	376
3.1.4.78.1.1	BusinessDataCatalogSharedService_GetParameterById_InputMessage .....	377
3.1.4.78.1.2	BusinessDataCatalogSharedService_GetParameterById_OutputMessage .....	377
3.1.4.78.2	Elements .....	377
3.1.4.78.2.1	GetParameterById .....	377
3.1.4.78.2.2	GetParameterByIdResponse .....	377
3.1.4.78.3	Complex Types .....	378
3.1.4.78.4	Simple Types .....	378
3.1.4.78.5	Attributes .....	378
3.1.4.78.6	Groups .....	378
3.1.4.78.7	Attribute Groups .....	378
3.1.4.79	GetParametersForMethod .....	378
3.1.4.79.1	Messages .....	379
3.1.4.79.1.1	BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage .....	380
3.1.4.79.1.2	BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage .....	380
3.1.4.79.2	Elements .....	380
3.1.4.79.2.1	GetParametersForMethod .....	380
3.1.4.79.2.2	GetParametersForMethodResponse .....	381
3.1.4.79.3	Complex Types .....	381
3.1.4.79.3.1	ArrayOfParameterStruct .....	381
3.1.4.79.4	Simple Types .....	381
3.1.4.79.5	Attributes .....	381
3.1.4.79.6	Groups .....	381
3.1.4.79.7	Attribute Groups .....	381
3.1.4.80	GetRootTypeDescriptorForParameter .....	382
3.1.4.80.1	Messages .....	383
3.1.4.80.1.1	BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage .....	383
3.1.4.80.1.2	BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage .....	383
3.1.4.80.2	Elements .....	383
3.1.4.80.2.1	GetRootTypeDescriptorForParameter .....	384
3.1.4.80.2.2	GetRootTypeDescriptorForParameterResponse .....	384
3.1.4.80.3	Complex Types .....	384
3.1.4.80.4	Simple Types .....	384
3.1.4.80.5	Attributes .....	384

3.1.4.80.6	Groups.....	385
3.1.4.80.7	Attribute Groups.....	385
3.1.4.81	GetServiceApplicationId .....	385
3.1.4.81.1	Messages .....	385
3.1.4.81.1.1	BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage .....	385
3.1.4.81.1.2	BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage .....	386
3.1.4.81.2	Elements.....	386
3.1.4.81.2.1	GetServiceApplicationId.....	386
3.1.4.81.2.2	GetServiceApplicationIdResponse.....	386
3.1.4.81.3	Complex Types .....	386
3.1.4.81.4	Simple Types .....	387
3.1.4.81.5	Attributes .....	387
3.1.4.81.6	Groups.....	387
3.1.4.81.7	Attribute Groups.....	387
3.1.4.82	GetSystemUtilityTypeNameForLobSystem .....	387
3.1.4.82.1	Messages .....	388
3.1.4.82.1.1	BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage .....	389
3.1.4.82.1.2	BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage .....	389
3.1.4.82.2	Elements.....	389
3.1.4.82.2.1	GetSystemUtilityTypeNameForLobSystem .....	389
3.1.4.82.2.2	GetSystemUtilityTypeNameForLobSystemResponse.....	389
3.1.4.82.3	Complex Types .....	390
3.1.4.82.4	Simple Types .....	390
3.1.4.82.5	Attributes .....	390
3.1.4.82.6	Groups.....	390
3.1.4.82.7	Attribute Groups.....	390
3.1.4.83	GetTypeDescriptorById.....	390
3.1.4.83.1	Messages .....	391
3.1.4.83.1.1	BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage .....	392
3.1.4.83.1.2	BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage.....	392
3.1.4.83.2	Elements.....	392
3.1.4.83.2.1	GetTypeDescriptorById.....	392
3.1.4.83.2.2	GetTypeDescriptorByIdResponse .....	393
3.1.4.83.3	Complex Types .....	393
3.1.4.83.4	Simple Types .....	393
3.1.4.83.5	Attributes .....	393
3.1.4.83.6	Groups.....	393
3.1.4.83.7	Attribute Groups.....	393
3.1.4.84	GetTypeDescriptorsByNameAndLevelForParameter.....	393
3.1.4.84.1	Messages .....	395
3.1.4.84.1.1	BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage .....	395
3.1.4.84.1.2	BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage .....	395

3.1.4.84.2	Elements .....	395
3.1.4.84.2.1	GetTypeDescriptorsByNameAndLevelForParameter.....	396
3.1.4.84.2.2	GetTypeDescriptorsByNameAndLevelForParameterResponse .....	396
3.1.4.84.3	Complex Types .....	396
3.1.4.84.4	Simple Types .....	397
3.1.4.84.5	Attributes .....	397
3.1.4.84.6	Groups.....	397
3.1.4.84.7	Attribute Groups.....	397
3.1.4.85	GetTypeDescriptorsForFilterDescriptor .....	397
3.1.4.85.1	Messages .....	398
3.1.4.85.1.1	BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage .....	398
3.1.4.85.1.2	BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage.....	399
3.1.4.85.2	Elements .....	399
3.1.4.85.2.1	GetTypeDescriptorsForFilterDescriptor .....	399
3.1.4.85.2.2	GetTypeDescriptorsForFilterDescriptorResponse.....	399
3.1.4.85.3	Complex Types .....	400
3.1.4.85.4	Simple Types .....	400
3.1.4.85.5	Attributes .....	400
3.1.4.85.6	Groups.....	400
3.1.4.85.7	Attribute Groups.....	400
3.1.4.86	GetTypeReflectorTypeNameForParameter .....	400
3.1.4.86.1	Messages .....	401
3.1.4.86.1.1	BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage.....	402
3.1.4.86.1.2	BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage .....	402
3.1.4.86.2	Elements .....	402
3.1.4.86.2.1	GetTypeReflectorTypeNameForParameter .....	402
3.1.4.86.2.2	GetTypeReflectorTypeNameForParameterResponse .....	402
3.1.4.86.3	Complex Types .....	403
3.1.4.86.4	Simple Types .....	403
3.1.4.86.5	Attributes .....	403
3.1.4.86.6	Groups.....	403
3.1.4.86.7	Attribute Groups.....	403
3.1.4.87	GetXmlSchemaForView .....	403
3.1.4.87.1	Messages .....	405
3.1.4.87.1.1	BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage .....	405
3.1.4.87.1.2	BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage.....	405
3.1.4.87.2	Elements .....	405
3.1.4.87.2.1	GetXmlSchemaForView .....	406
3.1.4.87.2.2	GetXmlSchemaForViewResponse .....	406
3.1.4.87.3	Complex Types .....	408
3.1.4.87.4	Simple Types .....	408
3.1.4.87.5	Attributes .....	408
3.1.4.87.6	Groups.....	408
3.1.4.87.7	Attribute Groups.....	408
3.1.4.88	HaveRights.....	408
3.1.4.88.1	Messages .....	409

3.1.4.88.1.1	BusinessDataCatalogSharedService_HaveRights_InputMessage	409
3.1.4.88.1.2	BusinessDataCatalogSharedService_HaveRights_OutputMessage	410
3.1.4.88.2	Elements	410
3.1.4.88.2.1	HaveRights	410
3.1.4.88.2.2	HaveRightsResponse	410
3.1.4.88.3	Complex Types	411
3.1.4.88.4	Simple Types	411
3.1.4.88.4.1	BdcRights	411
3.1.4.88.5	Attributes	412
3.1.4.88.6	Groups	412
3.1.4.88.7	Attribute Groups	412
3.1.4.89	ImportPackage	412
3.1.4.89.1	Messages	415
3.1.4.89.1.1	BusinessDataCatalogSharedService_ImportPackage_InputMessage	416
3.1.4.89.1.2	BusinessDataCatalogSharedService_ImportPackage_OutputMessage	416
3.1.4.89.2	Elements	416
3.1.4.89.2.1	ImportPackage	416
3.1.4.89.2.2	ImportPackageResponse	417
3.1.4.89.3	Complex Types	418
3.1.4.89.4	Simple Types	418
3.1.4.89.5	Attributes	418
3.1.4.89.6	Groups	418
3.1.4.89.7	Attribute Groups	418
3.1.4.90	ImportPackageWithProgress	418
3.1.4.90.1	Messages	422
3.1.4.90.1.1	BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage	422
3.1.4.90.1.2	BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage	422
3.1.4.90.2	Elements	422
3.1.4.90.2.1	ImportPackageWithProgress	423
3.1.4.90.2.2	ImportPackageWithProgressResponse	424
3.1.4.90.3	Complex Types	424
3.1.4.90.4	Simple Types	424
3.1.4.90.5	Attributes	425
3.1.4.90.6	Groups	425
3.1.4.90.7	Attribute Groups	425
3.1.4.91	IsMethodInstantiated	425
3.1.4.91.1	Messages	426
3.1.4.91.1.1	BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage	426
3.1.4.91.1.2	BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage	426
3.1.4.91.2	Elements	426
3.1.4.91.2.1	IsMethodInstantiated	427
3.1.4.91.2.2	IsMethodInstantiatedResponse	427
3.1.4.91.3	Complex Types	427
3.1.4.91.4	Simple Types	427
3.1.4.91.5	Attributes	427
3.1.4.91.6	Groups	427
3.1.4.91.7	Attribute Groups	427
3.1.4.92	IsParameterReferencedByMethodInstance	428
3.1.4.92.1	Messages	429

3.1.4.92.1.1	BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage .....	429
3.1.4.92.1.2	BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage .....	429
3.1.4.92.2	Elements .....	430
3.1.4.92.2.1	IsParameterReferencedByMethodInstance .....	430
3.1.4.92.2.2	IsParameterReferencedByMethodInstanceResponse .....	430
3.1.4.92.3	Complex Types .....	430
3.1.4.92.4	Simple Types .....	431
3.1.4.92.5	Attributes .....	431
3.1.4.92.6	Groups .....	431
3.1.4.92.7	Attribute Groups .....	431
3.1.4.93	MetadataObjectCreate .....	431
3.1.4.93.1	Messages .....	437
3.1.4.93.1.1	BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage .....	437
3.1.4.93.1.2	BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage .....	438
3.1.4.93.2	Elements .....	438
3.1.4.93.2.1	MetadataObjectCreate .....	438
3.1.4.93.2.2	MetadataObjectCreateResponse .....	438
3.1.4.93.3	Complex Types .....	439
3.1.4.93.4	Simple Types .....	439
3.1.4.93.5	Attributes .....	439
3.1.4.93.6	Groups .....	439
3.1.4.93.7	Attribute Groups .....	439
3.1.4.94	MetadataObjectMergeXml .....	439
3.1.4.94.1	Messages .....	442
3.1.4.94.1.1	BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage .....	442
3.1.4.94.1.2	BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage .....	443
3.1.4.94.2	Elements .....	443
3.1.4.94.2.1	MetadataObjectMergeXml .....	443
3.1.4.94.2.2	MetadataObjectMergeXmlResponse .....	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	MetadataObjectReadXml .....	446
3.1.4.95.1	Messages .....	453
3.1.4.95.1.1	BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage .....	453
3.1.4.95.1.2	BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage .....	453
3.1.4.95.2	Elements .....	453
3.1.4.95.2.1	MetadataObjectReadXml .....	454
3.1.4.95.2.2	MetadataObjectReadXmlResponse .....	455
3.1.4.95.3	Complex Types .....	455

3.1.4.95.4	Simple Types .....	455
3.1.4.95.5	Attributes .....	456
3.1.4.95.6	Groups .....	456
3.1.4.95.7	Attribute Groups .....	456
3.1.4.96	MetadataObjectWriteXml .....	456
3.1.4.96.1	Messages .....	458
3.1.4.96.1.1	BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage .....	458
3.1.4.96.1.2	BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage .....	459
3.1.4.96.2	Elements .....	459
3.1.4.96.2.1	MetadataObjectWriteXml .....	459
3.1.4.96.2.2	MetadataObjectWriteXmlResponse .....	460
3.1.4.96.3	Complex Types .....	461
3.1.4.96.4	Simple Types .....	461
3.1.4.96.5	Attributes .....	462
3.1.4.96.6	Groups .....	462
3.1.4.96.7	Attribute Groups .....	462
3.1.4.97	ModelReadXml .....	462
3.1.4.97.1	Messages .....	466
3.1.4.97.1.1	BusinessDataCatalogSharedService_ModelReadXml_InputMessage .....	466
3.1.4.97.1.2	BusinessDataCatalogSharedService_ModelReadXml_OutputMessage .....	467
3.1.4.97.2	Elements .....	467
3.1.4.97.2.1	ModelReadXml .....	467
3.1.4.97.2.2	ModelReadXmlResponse .....	468
3.1.4.97.3	Complex Types .....	468
3.1.4.97.4	Simple Types .....	468
3.1.4.97.5	Attributes .....	468
3.1.4.97.6	Groups .....	469
3.1.4.97.7	Attribute Groups .....	469
3.1.4.98	ReadSlicedXml .....	469
3.1.4.98.1	Messages .....	470
3.1.4.98.1.1	BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage .....	470
3.1.4.98.1.2	BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage .....	470
3.1.4.98.2	Elements .....	470
3.1.4.98.2.1	ReadSlicedXml .....	470
3.1.4.98.2.2	ReadSlicedXmlResponse .....	471
3.1.4.98.3	Complex Types .....	471
3.1.4.98.4	Simple Types .....	471
3.1.4.98.5	Attributes .....	471
3.1.4.98.6	Groups .....	471
3.1.4.98.7	Attribute Groups .....	472
3.1.4.99	RemoveEntityFromModel .....	472
3.1.4.99.1	Messages .....	473
3.1.4.99.1.1	BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage .....	473
3.1.4.99.1.2	BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage .....	473
3.1.4.99.2	Elements .....	474
3.1.4.99.2.1	RemoveEntityFromModel .....	474
3.1.4.99.2.2	RemoveEntityFromModelResponse .....	474
3.1.4.99.3	Complex Types .....	474
3.1.4.99.4	Simple Types .....	474
3.1.4.99.5	Attributes .....	474



3.1.4.99.6	Groups.....	474
3.1.4.99.7	Attribute Groups.....	475
3.1.4.100	RemoveLocalizedName .....	475
3.1.4.100.1	Messages .....	476
3.1.4.100.1.1	BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage.....	476
3.1.4.100.1.2	BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage.....	476
3.1.4.100.2	Elements .....	477
3.1.4.100.2.1	RemoveLocalizedName .....	477
3.1.4.100.2.2	RemoveLocalizedNameResponse.....	477
3.1.4.100.3	Complex Types .....	477
3.1.4.100.4	Simple Types .....	477
3.1.4.100.5	Attributes .....	477
3.1.4.100.6	Groups.....	478
3.1.4.100.7	Attribute Groups.....	478
3.1.4.101	RemoveProperty .....	478
3.1.4.101.1	Messages .....	479
3.1.4.101.1.1	BusinessDataCatalogSharedService_RemoveProperty_InputMessage.....	479
3.1.4.101.1.2	BusinessDataCatalogSharedService_RemoveProperty_OutputMessage.....	479
3.1.4.101.2	Elements .....	480
3.1.4.101.2.1	RemoveProperty .....	480
3.1.4.101.2.2	RemovePropertyResponse.....	480
3.1.4.101.3	Complex Types .....	480
3.1.4.101.4	Simple Types .....	480
3.1.4.101.5	Attributes .....	480
3.1.4.101.6	Groups.....	481
3.1.4.101.7	Attribute Groups.....	481
3.1.4.102	SaveLocalizedName.....	481
3.1.4.102.1	Messages .....	482
3.1.4.102.1.1	BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage.....	482
3.1.4.102.1.2	BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage.....	482
3.1.4.102.2	Elements.....	483
3.1.4.102.2.1	SaveLocalizedName .....	483
3.1.4.102.2.2	SaveLocalizedNameResponse .....	483
3.1.4.102.3	Complex Types .....	483
3.1.4.102.4	Simple Types .....	483
3.1.4.102.5	Attributes .....	483
3.1.4.102.6	Groups.....	484
3.1.4.102.7	Attribute Groups.....	484
3.1.4.103	SaveProperty.....	484
3.1.4.103.1	Messages .....	485
3.1.4.103.1.1	BusinessDataCatalogSharedService_SaveProperty_InputMessage.....	485
3.1.4.103.1.2	BusinessDataCatalogSharedService_SaveProperty_OutputMessage.....	486
3.1.4.103.2	Elements .....	486
3.1.4.103.2.1	SaveProperty .....	486
3.1.4.103.2.2	SavePropertyResponse .....	486
3.1.4.103.3	Complex Types .....	486
3.1.4.103.4	Simple Types .....	486
3.1.4.103.5	Attributes .....	486
3.1.4.103.6	Groups.....	487
3.1.4.103.7	Attribute Groups.....	487

3.1.4.104	SetAccessControlEntries.....	487
3.1.4.104.1	Messages .....	488
3.1.4.104.1.1	BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage .....	489
3.1.4.104.1.2	BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage .....	489
3.1.4.104.2	Elements.....	489
3.1.4.104.2.1	SetAccessControlEntries .....	489
3.1.4.104.2.2	SetAccessControlEntriesResponse .....	490
3.1.4.104.3	Complex Types .....	490
3.1.4.104.4	Simple Types .....	490
3.1.4.104.5	Attributes .....	490
3.1.4.104.6	Groups.....	490
3.1.4.104.7	Attribute Groups.....	490
3.1.4.105	SetDefaultActionForEntity .....	491
3.1.4.105.1	Messages .....	492
3.1.4.105.1.1	BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage .....	492
3.1.4.105.1.2	BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage .....	492
3.1.4.105.2	Elements.....	492
3.1.4.105.2.1	SetDefaultActionForEntity .....	493
3.1.4.105.2.2	SetDefaultActionForEntityResponse .....	493
3.1.4.105.3	Complex Types .....	493
3.1.4.105.4	Simple Types .....	493
3.1.4.105.5	Attributes .....	493
3.1.4.105.6	Groups.....	494
3.1.4.105.7	Attribute Groups.....	494
3.1.4.106	SetDefaultValuesForTypeDescriptor.....	494
3.1.4.106.1	Messages .....	495
3.1.4.106.1.1	BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage .....	496
3.1.4.106.1.2	BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage .....	496
3.1.4.106.2	Elements.....	496
3.1.4.106.2.1	SetDefaultValuesForTypeDescriptor.....	496
3.1.4.106.2.2	SetDefaultValuesForTypeDescriptorResponse .....	496
3.1.4.106.3	Complex Types .....	497
3.1.4.106.4	Simple Types .....	497
3.1.4.106.5	Attributes .....	497
3.1.4.106.6	Groups.....	497
3.1.4.106.7	Attribute Groups.....	497
3.1.4.107	SetLobSystemDataByLobSystemId .....	497
3.1.4.107.1	Messages .....	498
3.1.4.107.1.1	BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage .....	498
3.1.4.107.1.2	BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage .....	498
3.1.4.107.2	Elements.....	499
3.1.4.107.2.1	SetLobSystemDataByLobSystemId .....	499

3.1.4.107.2.2	SetLobSystemDataByLobSystemIdResponse .....	499
3.1.4.107.3	Complex Types .....	499
3.1.4.107.4	Simple Types .....	499
3.1.4.107.5	Attributes .....	500
3.1.4.107.6	Groups .....	500
3.1.4.107.7	Attribute Groups.....	500
3.1.4.108	TypeDescriptorCreate .....	500
3.1.4.108.1	Messages .....	502
3.1.4.108.1.1	BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage .....	502
3.1.4.108.1.2	BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage .....	502
3.1.4.108.2	Elements.....	502
3.1.4.108.2.1	TypeDescriptorCreate .....	503
3.1.4.108.2.2	TypeDescriptorCreateResponse.....	503
3.1.4.108.3	Complex Types .....	503
3.1.4.108.4	Simple Types .....	503
3.1.4.108.5	Attributes .....	504
3.1.4.108.6	Groups.....	504
3.1.4.108.7	Attribute Groups.....	504
3.1.4.109	TypeDescriptorMergeXml .....	504
3.1.4.109.1	Messages .....	506
3.1.4.109.1.1	BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage.....	506
3.1.4.109.1.2	BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage .....	506
3.1.4.109.2	Elements.....	506
3.1.4.109.2.1	TypeDescriptorMergeXml .....	507
3.1.4.109.2.2	TypeDescriptorMergeXmlResponse .....	508
3.1.4.109.3	Complex Types .....	508
3.1.4.109.4	Simple Types .....	508
3.1.4.109.5	Attributes .....	508
3.1.4.109.6	Groups.....	508
3.1.4.109.7	Attribute Groups.....	508
3.1.4.110	TypeDescriptorReadXml .....	508
3.1.4.110.1	Messages .....	513
3.1.4.110.1.1	BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage .....	513
3.1.4.110.1.2	BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage .....	513
3.1.4.110.2	Elements.....	513
3.1.4.110.2.1	TypeDescriptorReadXml.....	513
3.1.4.110.2.2	TypeDescriptorReadXmlResponse .....	514
3.1.4.110.3	Complex Types .....	515
3.1.4.110.4	Simple Types .....	515
3.1.4.110.5	Attributes .....	515
3.1.4.110.6	Groups.....	515
3.1.4.110.7	Attribute Groups.....	515
3.1.4.111	Update .....	515
3.1.4.111.1	Messages .....	522
3.1.4.111.1.1	BusinessDataCatalogSharedService_Update_InputMessage.....	522
3.1.4.111.1.2	BusinessDataCatalogSharedService_Update_OutputMessage.....	522

3.1.4.111.2	Elements .....	522
3.1.4.111.2.1	Update .....	523
3.1.4.111.2.2	UpdateResponse .....	523
3.1.4.111.3	Complex Types .....	523
3.1.4.111.4	Simple Types .....	523
3.1.4.111.5	Attributes .....	523
3.1.4.111.6	Groups .....	523
3.1.4.111.7	Attribute Groups .....	523
3.1.4.112	WriteSlicedXml .....	524
3.1.4.112.1	Messages .....	525
3.1.4.112.1.1	BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage .....	525
3.1.4.112.1.2	BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage .....	525
3.1.4.112.2	Elements .....	525
3.1.4.112.2.1	WriteSlicedXml .....	525
3.1.4.112.2.2	WriteSlicedXmlResponse .....	526
3.1.4.112.3	Complex Types .....	526
3.1.4.112.4	Simple Types .....	526
3.1.4.112.5	Attributes .....	526
3.1.4.112.6	Groups .....	526
3.1.4.112.7	Attribute Groups .....	526
3.1.5	Timer Events .....	526
3.1.6	Other Local Events .....	526
<b>4</b>	<b>Protocol Examples .....</b>	<b>527</b>
4.1	Creating an LobSystem .....	527
4.2	Setting the Security Information of a MetadataObject .....	528
4.3	Reading the Security Information of a MetadataObject .....	529
4.4	Creating an Entity .....	531
4.5	Activating an Entity .....	532
4.6	Reading an Entity .....	534
4.7	Creating Properties for MetadataObjects .....	535
4.8	Adding Localized Names for MetadataObjects .....	537
4.9	Updating an Entity .....	538
4.10	Deleting an Entity .....	539
<b>5</b>	<b>Security .....</b>	<b>541</b>
5.1	Security Considerations for Implementers .....	541
5.2	Index of Security Parameters .....	541
<b>6</b>	<b>Appendix A: Full WSDL .....</b>	<b>542</b>
<b>7</b>	<b>Appendix B: Full XML Schema .....</b>	<b>733</b>
7.1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema .....	733
7.2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema .....	734
7.3	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema .....	736
7.4	Microsoft.BusinessData.SharePoint Schema .....	736
7.5	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants Schema .....	736
7.6	Microsoft.SharePoint.BusinessData Schema .....	737
7.7	http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema .....	747
7.8	http://schemas.microsoft.com/2003/10/Serialization/ Schema .....	747
7.9	http://schemas.datacontract.org/2004/07/System Schema .....	748
7.10	http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema .....	749
<b>8</b>	<b>Appendix C: Product Behavior .....</b>	<b>779</b>
<b>9</b>	<b>Change Tracking .....</b>	<b>788</b>

Preliminary

# 1 Introduction

The Business Data Connectivity Remote Administration Web Service Protocol enables protocol clients to create, 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.

**access control list (ACL):** A list of **access control entries (ACEs)** that collectively describe the security rules for authorizing access to some resource; for example, an object or set of objects.

**AccessChecker:** A type of **MethodInstance** that can be called to retrieve the permissions that the calling **security principal (2)** 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 (2)** and the associated permissions that each **security principal (2)** 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.

**complex type:** An element that can contain other elements or attributes and appears as <complexType> in an XML document. See also **simple type**.

**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 ReturnPropertyDescriptor 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 ReturnTypeDescriptor 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.

**Property:** A typed name/value pair that is associated with a **MetadataObject**. Properties enable consumers of a protocol client to annotate or decorate the MetadataObject with consumer-specific extensions. A MetadataObject can contain multiple Properties.

**ReturnTypeDescriptor:** 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 element:** The top-level element in an XML document. It contains all other elements and is not contained by any other element, as described in [\[XML\]](#).

**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:** (1) 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.

(2) An identity that can be used to regulate access to resources. A security principal can be a user, a computer, or a group that represents a set of users.

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

**simple type:** An element that can contain only text and appears as <simpleType> in an XML document or any attribute of an element. Attributes are considered simple types because they contain only text. See also **complex type**.

**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.

**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.

**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 attribute:** A name/value pair, separated by an equal sign (=) and included in a tagged element, that modifies features of an element. All XML attribute values are stored as strings enclosed in quotation marks.

**XML element:** An **XML** structure that typically consists of a start tag, an end tag, and the information between those tags. Elements can have attributes and can contain other elements.

**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.

**XML schema definition (XSD):** The World Wide Web Consortium (W3C) standard language that is used in defining XML schemas. Schemas are useful for enforcing structure and constraining the types of data that can be used validly within other XML documents. XML schema definition refers to the fully specified and currently recommended standard for use in authoring **XML schemas**.

**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](mailto: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](#)".

[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>

[WSA1.0] Gudgin, M., Hadley, M., Rogers, T., et al., Eds., "Web Services Addressing 1.0 - WSDL Binding", W3C Candidate Recommendation, May 2006, <http://www.w3.org/TR/2006/CR-ws-addr-wsdl-20060529/>

[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/>

[XMLSCHEMA0] Fallside, D., and Walmsley, P., Eds., "XML Schema Part 0: Primer, Second Edition", W3C Recommendation, October 2004, <http://www.w3.org/TR/2004/REC-xmlschema-0-20041028/>

[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] 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

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

[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>

## 1.3 Protocol Overview (Synopsis)

Corporations have a variety of data stored in various **line-of-business (LOB) systems**. Typically, this data is accessible only 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, such as "get all customers" or "update order information", by using data structures, such as **Methods**, **Parameters**, and **TypeDescriptors**. It is also possible to store 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 within an **Entity** representing a business data type, such as a "customer" or an "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**,

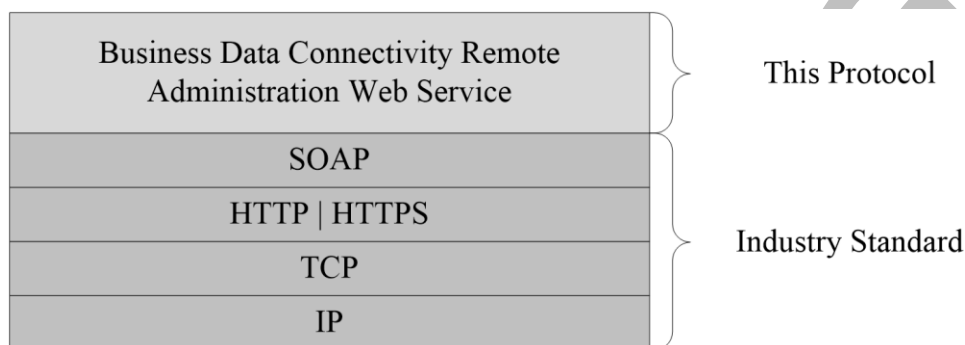
**Identifier**, **FilterDescriptor**, and **Association**. These data structures, collectively called **MetadataObjects**, can be grouped into related collections called **MetadataModels** that describe a single LOB system. After a store of MetadataModels is made available, a runtime engine can use the store to convert a stereotypical normalized operation requested by an application that uses the protocol client into a LOB system-specific invocation.

This protocol enables a client to create, read, update, and delete MetadataObjects in a **metadata store**. For operations that create or modify MetadataObjects, 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 **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#) or 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 URIs** that are known by protocol clients. The endpoint URI of the protocol server and the transport that is used by the protocol server are known by the protocol client.

This protocol assumes that authentication has been performed by the underlying protocols.

#### 1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are both 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 **Simple Object Access Protocol (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.

Preliminary



## 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. Protocol servers **SHOULD** additionally support SOAP over HTTPS to secure communication with protocol clients.

Protocol messages **MUST** be formatted as specified in [\[SOAP1.1\]](#), section 4. Protocol server faults **MUST** be returned using HTTP Status Codes as specified in [\[RFC2616\]](#), section 10, or using **SOAP faults** as specified in [\[SOAP1.1\]](#), section 4.4.

### 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 [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), 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	<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a>	
q2	<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	
q4	Microsoft.BusinessData.SharePoint	
q5	Microsoft.SharePoint.BusinessData	
q9	<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	
ser	<a href="http://schemas.microsoft.com/2003/10/Serialization/">http://schemas.microsoft.com/2003/10/Serialization/</a>	
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
tns	<a href="http://www.microsoft.com/Office/2009/BusinessDataCatalog">http://www.microsoft.com/Office/2009/BusinessDataCatalog</a>	
tns1	<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel</a>	
tns2	<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime</a>	
tns3	<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants">http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants</a>	
tns4	<a href="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports</a>	

Prefi x	Namespace URI	Reference
wsa w	http://www.w3.org/2006/05/addressing/wsdl	<a href="#">[WSA1.0]</a>
wsdl	http://schemas.xmlsoap.org/wsdl/	<a href="#">[WSDL]</a>
xs	http://www.w3.org/2001/XMLSchema	<a href="#">[XMLSCHEM A1]</a> <a href="#">[XMLSCHEM A2]</a>

## 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 **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.

**Code:** MUST contain a Value subelement, which MUST be set to Sender. MAY contain a Subcode subelement.

**Reason:** MUST contain a Text sub-element, which MUST be ignored by the client.

**Detail:** MUST either contain the error complex type or 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
<b>AccessControlEntryStruct</b>	The <b>AccessControlEntryStruct</b> complex type contains information about an <b>access control entry (ACE)</b> .
<b>AccessDeniedException</b>	The <b>AccessDeniedException</b> complex type is an error complex type that contains information about a protocol-server-side error because of a violation of access control on the <b>metadata store</b> . The complex type MUST only be included as part of a <b>SOAP fault</b> as specified in <b>Complex Types</b> (section 2.2.4).
<b>AccessDeniedExceptionState</b>	The <b>AccessDeniedExceptionState</b> complex type is an

Complex type	Description
	error complex type that contains information about a protocol-server-side error because of a violation of access control on the metadata store. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>ActionParameterStruct</b>	The <b>ActionParameterStruct</b> complex type contains information about an <b>ActionParameter</b> .
<b>ActionStruct</b>	The <b>ActionStruct</b> complex type contains information about an <b>Action</b> .
<b>AdministrationMetadataCatalogStruct</b>	The <b>AdministrationMetadataCatalogStruct</b> contains information about a <b>MetadataCatalog</b> .
<b>ArgumentException</b>	The <b>ArgumentException</b> complex type is an error complex type that contains information about a protocol-server-side error that occurred because of an argument with an invalid value. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>ArgumentNullException</b>	The <b>ArgumentNullException</b> complex type is an error complex type that contains information about a protocol-server-side error because of a NULL value in an argument which does not accept NULL values. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>ArgumentOutOfRangeException</b>	The <b>ArgumentOutOfRangeException</b> complex type is an error complex type that contains information about a protocol-server-side error because of an argument with a value outside the range of permissible values. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>ArrayOfAccessControlEntryStruct</b>	The <b>ArrayOfAccessControlEntryStruct</b> complex type is a list of complex types, each of which represents an ACE.
<b>ArrayOfAssociationStruct</b>	The <b>ArrayOfAssociationStruct</b> complex type is a list of complex types, each of which represents an <b>Association</b> .
<b>ArrayOfEntityStruct</b>	The <b>ArrayOfEntityStruct</b> complex type is a list of complex types, each of which represents an <b>Entity</b> .
<b>ArrayOfLobSystemStruct</b>	The <b>ArrayOfLobSystemStruct</b> complex type is a list of complex types, each of which represents an <b>LobSystem</b> .
<b>ArrayOfLocalizedNameStruct</b>	The <b>ArrayOfLocalizedNameStruct</b> complex type is a list of complex types, each of which represents a <b>localized name</b> .
<b>ArrayOfMethodInstanceStruct</b>	The <b>ArrayOfMethodInstanceStruct</b> complex type is a list of complex types, each of which represents a <b>MethodInstances</b> .
<b>ArrayOfModelStruct</b>	The <b>ArrayOfModelStruct</b> complex type is a list of complex types, each of which represents a <b>Model</b> .
<b>ArrayOfPropertyStruct</b>	The <b>ArrayOfPropertyStruct</b> complex type is a list of complex types, each of which represents a property.
<b>ArrayOfstring</b>	The <b>ArrayOfString</b> complex type represents a list of xs:string as specified in <a href="#">[XMLSCHEMA2]</a> .

Complex type	Description
<b>ArrayOfTypeDescriptorStruct</b>	The <b>ArrayOfTypeDescriptorStruct</b> complex type is a list of complex types, each of which represents a <b>TypeDescriptor</b> .
<b>ArrayOfunsignedInt</b>	The <b>ArrayOfunsignedInt</b> complex type represents a list of xs:unsignedInt elements as specified in [XMLSCHEMA2].
<b>AssociationGroupStruct</b>	The <b>AssociationGroupStruct</b> complex type contains information about an <b>AssociationGroup</b> . Each Association referenced by the <b>AssociationReferences</b> contained by the AssociationGroup is identified by the values in the same index of the lists <b>associationEntityNames</b> , <b>associationEntityNamespaces</b> , <b>associationNames</b> and <b>associationIds</b> .
<b>AssociationReferenceStruct</b>	The <b>AssociationReferenceStruct</b> complex type contains information about an AssociationReference.
<b>AssociationStruct</b>	The <b>AssociationStruct</b> complex type MUST contain information about an Association. A namespace at any index of the <b>sourceEntityNamespaces</b> element of this complex type MUST be the namespace of the Entity which the name at the same index of the <b>sourceEntityNames</b> element belongs to.
<b>BdcException</b>	The <b>BdcException</b> complex type is an error complex type that contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>BdcExceptionState</b>	The <b>BdcExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>ComplexValueStruct</b>	The <b>ComplexValueStruct</b> complex type MUST contain information about data types.
<b>ConcurrentModificationExceptionState</b>	The <b>ConcurrentModificationExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because of a concurrent modification of a <b>MetadataObject</b> . The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>DataClassStruct</b>	The <b>DataClassStruct</b> complex type MUST contain information about a <b>DataClass</b> .
<b>DefaultValueStruct</b>	The <b>DefaultValueStruct</b> complex type contains details of a <b>DefaultValue</b> of a TypeDescriptor.
<b>DuplicateMetadataObjectExceptionState</b>	The <b>DuplicateMetadataObjectExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error from a duplication of a MetadataObject. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).

Complex type	Description
<b>EntityStruct</b>	The <b>EntityStruct</b> complex type contains information about an Entity.
<b>ExceededMetadataObjectLimitExceptionState</b>	The <b>ExceededMetadataObjectLimitExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because of a MetadataObject exceeding an implementation-specific limit to the number of MetadataObjects it can contain or refer to. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>Exception</b>	The <b>Exception</b> complex type is an error complex type that contains information about a protocol-server-side error. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>FilterDescriptorStruct</b>	The <b>FilterDescriptorStruct</b> complex type contains information about a <b>FilterDescriptor</b> .
<b>IdentifierStruct</b>	The <b>IdentifierStruct</b> complex type contains information about an <b>Identifier</b> .
<b>InvalidMetadataObjectExceptionState</b>	The <b>InvalidMetadataObjectExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because a MetadataObject contained invalid attributes. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>InvalidMetadataPropertyExceptionState</b>	The <b>InvalidMetadataPropertyExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because an invalid property was detected in the set of properties of a MetadataObject. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>InvalidOperationException</b>	The <b>InvalidOperationException</b> complex type is an error complex type that contains information about a protocol-server-side error because of an attempt to perform an operation that is invalid for the current state of the protocol server. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>LobSystemInstanceStruct</b>	The LobSystemInstanceStruct complex type contains information about an <b>LobSystemInstance</b> .
<b>LobSystemStruct</b>	The <b>LobSystemStruct</b> complex type contains information about an LobSystem.
<b>LocalizedNameStruct</b>	The <b>LocalizedNameStruct</b> complex type contains information about a localized name.
<b>MetadataException</b>	The <b>MetadataException</b> complex type is an error complex type that contains information about a protocol-server-side error because of a syntactic or semantic violation of a <b>MetadataModel</b> constraint in the metadata store. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>MetadataObjectNotFoundExceptionState</b>	The <b>MetadataObjectNotFoundExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because a requested

Complex type	Description
	MetadataObject was not found. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>MetadataObjectStruct</b>	This structure contains the attributes of the MetadataObject.
<b>MethodInstanceStruct</b>	The <b>MethodInstanceStruct</b> complex type contains information about a MethodInstance.
<b>MethodStruct</b>	The <b>MethodStruct</b> complex type contains information about a <b>Method</b> .
<b>ModelStruct</b>	The <b>ModelStruct</b> complex type contains information about a Model.
<b>PackageFormatExceptionState</b>	The <b>PackageFormatExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because a specified XML does not conform to [MS-BDCMFFS] or the MetadataModel contained within the specified XML conforming to [MS-BDCMFFS] having invalid configuration of MetadataObjects or their attributes. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4)
<b>ParameterStruct</b>	This structure contains the information about a <b>Parameter</b> .
<b>PropertyStruct</b>	The <b>PropertyStruct</b> complex type contains information about a property.
<b>ProxyGenerationResult</b>	The <b>ProxyGenerationResult</b> complex type contains information about <b>Business Logic Modules&lt;1&gt;</b> .
<b>SystemException</b>	The <b>SystemException</b> complex type is an error complex type that contains information about a protocol-server-side error. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section 2.2.4).
<b>TypeDescriptorStruct</b>	The <b>TypeDescriptorStruct</b> complex type contains information about a TypeDescriptor.
<b>Version</b>	The <b>Version</b> complex type MUST contain information about 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:** MUST be ignored by the protocol server. MUST be ignored by the protocol client.

**principalDisplayName:** MUST be ignored by the protocol server. MUST be ignored by the protocol client.

**principalName:** The name of a **security principal (2)**. This element MUST be present. The value of this element MUST be as specified for **Principal** attribute in [\[MS-BDCMFFS\]](#) section 2.1.3.1.

**rights:** The permissions available to a security principal (2) to perform operations on or by using a **MetadataObject**. This element MUST be present. The value of this element MUST be sum of values of the corresponding rights in the **BdcRights** (section [3.1.4.88.4.1](#)) enumeration type.

#### 2.2.4.2 AccessDeniedException

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

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

```
<xs:complexType name="AccessDeniedException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:BdcException"/>
  </xs:complexContent>
</xs:complexType>
```

#### 2.2.4.3 AccessDeniedExceptionState

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

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

```
<xs:complexType name="AccessDeniedExceptionState"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q1: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="SecurableObjectType" nillable="true"
  type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**CurrentIdentity:** The **security principal (2)** 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. This element MUST be present. The value of this element MUST be in [1, 0x7fffffff] range.

**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 MUST be greater than or equal to 0, and less than the number of ActionParameters that are contained by the Action. The index values of ActionParameters MUST be unique across all ActionParameters that are contained by the same Action. <2>

#### 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. This element MUST be present. The value of this element MUST be in [1, 0x7fffffff] range.

**imageUrl:** The implementation-specific location of the resource that is used to represent the Action in the user interface. The application that utilizes the protocol client can use the resource in the specified location to represent the Action in the user interface possibly along with the **localized name** of the Action. This element MUST be present.



**isOpenedInNewWindow:** A value which specifies whether the results of executing an Action are presented in a new user interface context. The application that utilizes the protocol client can use this value as guidance on creating new user interface context when the Action is executed. This element **MUST** be present.

**position:** The order of an Action among the other Actions for an Entity. The application that utilizes the protocol client can use this ordering as guidance in an implementation-specific algorithm that represents the Actions in the user interface. This element **MUST** be present.

**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** complex type is an error complex type that contains information about a protocol-server-side error that occurred because of an argument with an invalid value. The complex type **MUST** only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

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

#### 2.2.4.8 ArgumentNullException

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

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

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

#### 2.2.4.9 ArgumentOutOfRangeException

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

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

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

```

<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 xs:unsignedInt elements 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 lists **associationEntityNames**, **associationEntityNamespaces**, **associationNames** and **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. This element **MUST** be present. If the corresponding Entity is not active, the value in this list **MUST** have at least 1, at most 255 **Unicode** characters. Otherwise, the value **MUST** be 0.

**associationEntityNamespaces:** A list containing the namespaces of Entities that contain the Associations belonging to the AssociationGroup. This element MUST be present. If the corresponding Entity is not active, the value in this list MUST have at least 1, at most 255 Unicode characters. Otherwise, the value MUST be 0.

**associationIds:** A list containing the **MetadataObjectIds** of the Associations referenced by the AssociationReferences contained by the AssociationGroup. This element MUST be present. If the Entity containing the corresponding Association is active, the value in this list SHOULD <3> be in [1, 0x7fffffff] range. Otherwise, the value MUST be 0.

**associationNames:** A list of the names of Associations referenced by the AssociationReferences contained by the AssociationGroup. This element MUST be present. If the Entity containing the corresponding Association is not active, the value in this list MUST have at least 1, at most 255 Unicode characters. Otherwise, the value MUST be NULL.

**entityId:** The MetadataObjectId of the Entity that contains the AssociationGroup. This element MUST be present. The value of this element MUST be in [1, 0x7fffffff] range.

#### 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. This element MUST be present. The name MUST have at least 1, at most 255 **Unicode** characters.

**\_entityName:** The name of the **Entity** containing the Association referenced by the AssociationReference. This element MUST be present. The name MUST have at least 1, at most 255 Unicode characters.

**\_entityNamespace:** The namespace of the Entity containing the Association reference by the AssociationReference. This element MUST be present. The namespace MUST have at least 1, at most 255 Unicode characters.

**associationGroupId:** The **MetadataObjectId** of the **AssociationGroup** which contains the AssociationReference. This element MUST be present. The value of this element MUST be in [1, 0x7fffffff] range.

**associationGroupObjectVersion:** The object version of the AssociationGroup. This element MUST be present.

**associationId:** The MetadataObjectId of the Association referenced by the AssociationReference. This element MUST be present. The value of this element MUST be in [1, 0x7fffffff] range.

**id:** The implementation-specific identifier of the AssociationReference. This element MUST be present.

**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. This element MUST be present. 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 **empty GUID**.[<4>](#)

### 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** which the name at the same index of the **sourceEntityNames** element belongs to.

```
<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>
```

**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 0. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

**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, 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, 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, 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, at most 255 Unicode characters.

#### 2.2.4.24 BdcException

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

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

```
<xs:complexType name="BdcException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q2="http://schemas.datacontract.org/2004/07/System"
      base="q2:Exception"/>
    </xs:complexContent>
  </xs:complexType>
```

#### 2.2.4.25 BdcExceptionState

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

The **BdcExceptionState** complex type is an error complex type that contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the **metadata store**. The complex type MUST only be included as part of a SOAP fault as specified in **Complex Types** (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>
```

**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 is detected.

#### 2.2.4.26 ComplexValueStruct

**Namespace:** [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData)



The **ComplexValueStruct** complex type MUST contain information about data types.

```
<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. The value MUST NOT carry any semantic significance for the protocol server.

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

#### 2.2.4.27 ConcurrentModificationExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ConcurrentModificationExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.SharePoint.BusinessData.SharePoint" base="q4:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </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:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
    <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2:Version"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

**active:** A **Boolean** value that specifies whether the **DataClass** is active.

**lobSystemId:** The **MetadataObjectId** of the **LabSystem** which 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**.

#### 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="methodName" 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**. This element **MUST** be present. The value of this element **MUST** have at least 1, at most 255 **Unicode** characters.

**typeDescriptorId:** The **MetadataObjectId** of the **TypeDescriptor** with which the default value 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** complex type is an error complex type that contains information about a protocol-server-side error from a duplication of a **MetadataObject**. The complex type **MUST** only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

```

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

```

```

<xs:complexContent mixed="false">
  <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4: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 duplicated.

**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.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. This element SHOULD [<5>](#) be present.

**estimatedInstanceCount:** The estimated maximum number of instances of the Entity. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

### 2.2.4.32 ExceededMetadataObjectLimitExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ExceededMetadataObjectLimitExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="Limit" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

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

```

**Limit:** The numerical limit that is exceeded.

### 2.2.4.33 Exception

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

The **Exception** complex type is an error complex type that contains information about a protocol-server-side error. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (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 attribute 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 [\[MSDN-DataContractKnownTypes\]](#).

### 2.2.4.34 FilterDescriptorStruct

**Namespace:** [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/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.SharePoint.BusinessData.MetadataModel"
          minOccurs="0" name="filterType" type="tns1:FilterType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**filterField:** The **field** affected by the FilterDescriptor. The value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section 2.1.5.5.

**filterType:** The **FilterType** (section [2.2.5.5](#)) of a FilterDescriptor.

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

### 2.2.4.35 IdentifierStruct

**Namespace:** [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/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 <b>Unicode</b> text.
System.Int16	A number ranging from negative 32768 to positive 32767.
System.Int32	A number ranging from negative 2,147,483,648 to positive 2,147,483,647.
System.Int64	A number ranging from negative 9,223,372,036,854,775,808 to positive 9,223,372,036,854,775,807.
System.UInt16	A number ranging from 0 to 65535.
System.UInt32	A number ranging from 0 to 4,294,967,295.
System.UInt64	A number ranging from 0 to 18,446,744,073,709,551,615.
System.DateTime	A date and time ranging from 12:00:00 midnight, January 1, 1 Anno Domini (Common Era) to 11:59:59 P.M., December 31, 9999 Anno Domini (Common Era), in resolution of 100 nanoseconds.
System.TimeSpan	A duration ranging from negative 10675199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds to positive 10675199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, in resolution of 100 nanoseconds.
System.Single	A single precision number ranging from negative 3.402823e38 to 3.402823e38.
System.Double	A double precision number ranging from negative 1.79769313486232e308 to positive 1.79769313486232e308 as well as positive zero, negative zero, positive infinity, negative infinity and NaN.
System.Decimal	A number ranging from negative 79,228,162,514,264,337,593,543,950,335 to positive 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number ranging from 0 to 255.
System.SByte	A number ranging from negative 128 to positive 127.
System.Guid	A <b>GUID</b> .
System.Boolean	A bit.

### 2.2.4.36 InvalidMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **InvalidMetadataObjectExceptionState** complex type is an error complex type that contains information about a protocol-server-side error because a **MetadataObject** contained invalid attributes. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

```
<xs:complexType name="InvalidMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.SharePoint.BusinessData.SharePoint" base="q4: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** complex type is an error complex type that contains information about a protocol-server-side error because an invalid property was detected in the set of properties of a **MetadataObject**. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

```
<xs:complexType name="InvalidMetadataPropertyExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.SharePoint.BusinessData.SharePoint" base="q4: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** complex type is an error complex type that contains information about a protocol-server-side error because of an attempt to perform an operation that is invalid for the current state of the protocol server. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

```
<xs:complexType name="InvalidOperationException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q2: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.SharePoint.BusinessData.MetadataModel"
          minOccurs="0" name="systemType" type="tns1:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**systemType:** The **SystemType** (section [2.2.5.9](#)) 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="v1ue" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**lcid:** The **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 [1, 0x7fffffff] range. <6>

**settingId:** The **Setting** that contains the localized name. This element **MUST** be present.

**v1ue:** 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** complex type is an error complex type that contains information about a protocol-server-side error because of a syntactic or semantic violation of a **MetadataModel** constraint in the **metadata store**. The complex type **MUST** only be included as part of a SOAP fault as specified in **Complex Types** (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:** An implementation-specific error message detailing the constraint violation.

**innerExceptionToStringed:** The detailed reason for the error.

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

**message:** The detailed reason for the error.

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

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

#### 2.2.4.43 MetadataObjectNotFoundExcpetionState

**Namespace:** Microsoft.SharePoint.BusinessData



The **MetadataObjectNotFoundExceptionState** complex type is an error complex type that contains information about a protocol-server-side error because a requested **MetadataObject** was not found. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

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

This structure 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: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 0. This element MUST be present. The value of this element MUST be in [0, 0x7fffffff] range.

**isCached:** A value that specifies the frequency of the use of a MetadataObject by the protocol client. Protocol clients can use this as a recommendation as to 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. This element MUST be present. 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, at most 255 **Unicode** characters.

**objectVersion:** The object version of the MetadataObject. This element MUST be present.

**partitionId:** The **empty GUID**.

## 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:** A value which specifies if the MethodInstance is the default one among the MethodInstances of the same time that are contained by the **DataClass** that contains this MethodInstance. This element **MUST** be present. The value **MUST** be in the following table.

Value	Description
False	The MethodInstance is not the default one.
True	The MethodInstance is the default one.

**methodId:** The **MetadataObjectId** of the **Method** that contains the MethodInstance. This element **MUST** be present.

**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** from the <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel> namespace.

**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. This element MUST be present.

**isStatic:** A value which specifies if the Method is associated with an **EntityInstance**. This element MUST be present. 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. This element MUST be present. The value of this element MUST NOT be NULL. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, an LOB system operation named "GetCus\_1" can be represented by a Method with name equal to "Get Customer". The lobName element of this Method needs to be "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** complex type is an error complex type that contains information about a protocol-server-side error because a specified XML does not conform to [\[MS-BDCMFFS\]](#) or the **MetadataModel** contained within the specified XML conforming to [\[MS-BDCMFFS\]](#) having invalid configuration of **MetadataObjects** or their attributes. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (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:q4="Microsoft.BusinessData.SharePoint" minOccurs="0"
      name="SerializedInnerSystemException" nillable="true" type="q4: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 is occurred.

#### 2.2.4.49 ParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

This structure contains the 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:tnsl="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="direction" type="tnsl: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 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:** The **MetadataObjectId** of the property.

**name:** The name of the property. The value MUST be unique among the names of other properties of the containing **MetadataObject**, within the specified **Setting**.

**settingId:** The Setting which 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:** The implementation-specific name for the data type of the value of the property.

#### 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**[<7>](#).

```
<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 base64 encoded bytes 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, their fingerprint values MUST also 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 SystemException

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

The **SystemException** complex type is an error complex type that contains information about a protocol-server-side error. The complex type MUST only be included as part of a **SOAP fault** as specified in **Complex Types** (section [2.2.4](#)).

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

#### 2.2.4.53 TypeDescriptorStruct

**Namespace:** [Microsoft.SharePoint.BusinessData](http://schemas.datacontract.org/2004/07/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:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

        <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 0. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

**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, 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, 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, at most 255 Unicode characters.

**childrenContainRules:** A value which indicates whether any descendant of the TypeDescriptor has rules. The value MUST be true, if any descendant of the TypeDescriptor has rules, otherwise the value MUST be false. This element MUST be present.

**containsFilterDescriptor:** A value which indicates whether the TypeDescriptor or any descendant of it has an associated **FilterDescriptor**. The value MUST be true, if the TypeDescriptor has an associated FilterDescriptor or there is a descendant of this TypeDescriptor which has an associated FilterDescriptor, otherwise the value MUST be false. This element MUST be present.

**containsIdentifier:** A value which indicates whether the TypeDescriptor or any descendant of it references an **Identifier**. The value MUST be true, if the TypeDescriptor references an Identifier or

there is a descendant of this TypeDescriptor which references an Identifier, otherwise the value MUST be false. This element MUST be present.

**containsReadOnly:** A value which indicates whether the TypeDescriptor or any descendant of it has "ReadOnly" flag set. The value MUST be true, if the TypeDescriptor has "ReadOnly" flag set or there is a descendant of this TypeDescriptor which has "ReadOnly" flag set. Otherwise, the value MUST be false. This element MUST be present.

**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 0. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

**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 0. The value of this element MUST be in [0, 0x7fffffff] range. 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, 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, at most 255 Unicode characters.

**identifierReferenceName:** The name of 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 referenced Identifier. Otherwise this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1, 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 0. Otherwise the value MUST be the MetadataObjectId of the parent TypeDescriptor that contains the TypeDescriptor. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

**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 empty string (""). 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<8> 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:

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

where **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.<9> The format is as specified in [MS-NRTP] section 2.2.1.2.

The rules MUST be stored in order from left to right, where the leftmost rule is first to one to run. Occurrence of a convertRule indicates that the protocol client MUST interpret this rule as a cast between fromType and toType. Occurrence of a normalizeRule indicates that the protocol client MUST interpret this rule as converting the time zone of a time value to **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. 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.<10> The format is as specified in [MS-NRTP], section 2.1.1.1.2.

- 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", specifies a module for the purpose of mapping value of **typeName** element to a data type, the specified module MUST be used.



If the previous conditions are not met, an implementation-specific [<11>](#) 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. The 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
<b>CacheUsage</b>	Specifies how the protocol client accesses <b>EntityInstance</b> data to perform create, read, update and delete operations, when this information is not provided explicitly by means that are beyond this protocol specification. If the protocol client does not have the capability to cache EntityInstance data, the protocol client MUST ignore this value.
<b>char</b>	The <b>char</b> simple type represents a <b>Unicode</b> character.
<b>DirectionType</b>	The <b>DirectionType</b> simple type specifies the direction of an argument represented by a <b>Parameter</b> for a <b>line-of-business (LOB) system</b> operation.
<b>duration</b>	The <b>duration</b> simple type represents a duration.
<b>FilterType</b>	The <b>FilterType</b> simple type specifies the type of the filter represented by the <b>FilterDescriptor</b> .
<b>guid</b>	The <b>guid</b> simple type represents a <b>GUID</b> .
<b>MethodInstanceType</b>	This simple type contains information about the type of a <b>MethodInstance</b> .
<b>PackageContents</b>	Specifies a subset of the types of the data contained by a <b>MetadataModel</b> .
<b>SystemType</b>	The type of line-of-business (LOB) system that an <b>LobSystem</b> is representing.
<b>TypeDescriptorFlags</b>	The <b>TypeDescriptorFlags</b> simple type contains information about the characteristics of the data stored in a data structure represented by a <b>TypeDescriptor</b> .

### 2.2.5.1 CacheUsage

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

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 this protocol specification. 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 <b>MUST</b> 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 <b>MUST</b> bypass the EntityInstance data cache for all operations.
Cached	The protocol client <b>MUST</b> use the EntityInstance data cache to perform create, update and delete operations. If the requested data is available in the EntityInstance data cache, protocol client <b>MUST</b> use the data in the cache, otherwise the protocol client <b>MUST</b> bypass the EntityInstance data cache to obtain the data, and put the data to the EntityInstance data cache for later use.
Offline	The protocol client <b>MUST</b> use the EntityInstance data cache to perform create, read, update, and delete operations.

### 2.2.5.2 char

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

The **char** simple type represents a **Unicode** character.

```
<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:restriction>
</xs:simpleType>
```

```

    <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	The argument is used to send data to the operation before the operation is executed.
Out	The argument is used to retrieve data from the operation after the operation is finished.
InOut	The argument is used to send data to the operation before the operation is starts, and also to retrieve data from the operation after the operation is finished.
Return	The argument is the result of the operation.

#### 2.2.5.4 duration

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/>

The **duration** simple type represents a duration.

```

<xs:simpleType name="duration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <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>

```

#### 2.2.5.5 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: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:restriction>
</xs:simpleType>

```

```

    <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 <b>ComparisonFilter</b> .
LastId	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>LastIdFilter</b> .
Limit	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>LimitFilter</b> .
PageNumber	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>PageNumberFilter</b> .
Password	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>PasswordCredentialFilter</b> .
SsoTicket	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>SsoTicketFilter</b> .
Timestamp	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>TimeStampFilter</b> .
UserContext	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>UserContextFilter</b> .
Username	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>UsernameCredentialFilter</b> .
UserProfile	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>UserProfileFilter</b> .
Wildcard	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>WildcardFilter</b> .
Input	Indicates that the protocol client MUST interpret the FilterDescriptor as an <b>InputFilter</b> .
Output	Indicates that the protocol client MUST interpret the FilterDescriptor as an <b>OutputFilter</b> .
InputOutput	Indicates that the protocol client MUST interpret the FilterDescriptor as an <b>InputOutputFilter</b> .
Batching	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>BatchingPositionFilter</b> .
BatchingTermination	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>BatchingTerminationFilter</b> .
UserCulture	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>UserCultureFilter</b> .
ActivityId	Indicates that the protocol client MUST interpret the FilterDescriptor as an <b>ActivityTrackingFilter</b> .
Sorting	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>SortingFilter</b> .

## 2.2.5.6 guid

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

The **guid** simple type represents a **GUID**.

```
<xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <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>
```

## 2.2.5.7 MethodInstanceType

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

This 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 <b>Finder</b> .
SpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a <b>SpecificFinder</b> .
GenericInvoker	Indicates that the protocol client MUST interpret the MethodInstance as a <b>GenericInvoker</b> .
IdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>IdEnumerator</b> .

Value	Meaning
Scalar	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Scalar</b> .
AccessChecker	Indicates that the protocol client MUST interpret the MethodInstance as a <b>AccessChecker</b> .
Creator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Creator</b> .
Updater	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Updater</b> .
Deleter	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Deleter</b> .
ChangedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>ChangedIdEnumerator</b> .
DeletedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>DeletedIdEnumerator</b> .
AssociationNavigator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>AssociationNavigator</b> .
Associator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Associator</b> .
Disassociator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Disassociator</b> .
StreamAccessor	Indicates that the protocol client MUST interpret the MethodInstance as a <b>StreamAccessor</b> .
BinarySecurityDescriptorAccessor	Indicates that the protocol client MUST interpret the MethodInstance as a <b>BinarySecurityDescriptorAccessor</b> .
BulkSpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a <b>BulkSpecificFinder</b> .
BulkAssociatedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>BulkAssociatedIdEnumerator</b> .
BulkAssociationNavigator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>BulkAssociationNavigator</b> .
BulkIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>BulkIdEnumerator</b> .
EventSubscriber	Indicates that the protocol client MUST interpret the MethodInstance as an <b>EventSubscriber</b> .
EventUnsubscriber	Indicates that the protocol client MUST interpret the MethodInstance as an <b>EventUnsubscriber</b> .

### 2.2.5.8 PackageContents

**Namespace:** Microsoft.SharePoint.BusinessData

Specifies a subset of the types of the 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 the values Model, LocalizedNames, Permissions, Properties, and InlineProxies were not specified.
Model	The <b>MetadataObjects</b> contained by the MetadataModel.
LocalizedNames	The <b>localized names</b> corresponding to the MetadataObjects contained by the MetadataModel.
Permissions	The <b>ACEs</b> corresponding to the MetadataObjects contained by the MetadataModel.
Properties	The <b>Properties</b> corresponding to the MetadataObjects contained by the MetadataModel.
InlineProxies	The <b>Business Logic Modules</b> associated with the <b>LobSystems</b> contained by the MetadataModel.
All	The MetadataObjects contained by the MetadataModel, along with their localized names, Properties, ACEs in addition to the Business Logic Modules associated with the LobSystems contained by the MetadataModel. This value is a composite that indicates that the values Model, LocalizedNames, Permissions, Properties, and InlineProxies were all specified.

### 2.2.5.9 SystemType

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

The type of **line-of-business (LOB) system** that an **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: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 LOB system is a database.
WebService	The represented LOB system is a <b>Web service</b> .
Custom	The represented LOB system is a LOB system for which business logic external to the protocol implementation manages the connection and data transfer.
Wcf	The represented LOB system is a service for which the communication address, the binding, and the contract are specified.
DotNetAssembly	The represented LOB system is a <b>Business Logic Module</b> .<12>
OData	The represented LOB system is an <b>OData service</b> that exposes data as per the OData protocol.

### 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 as a <b>field</b> for calling a <b>Creator</b> .
UpdaterField	This TypeDescriptor MUST be considered as a field for calling an <b>Updater</b> .
PreUpdaterField	This TypeDescriptor MUST be used to send the latest value received from the <b>line-of-business (LOB) system</b> 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.



Value	Meaning
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 <b>SortingFilter</b> . When this flag is not set on any TypeDescriptor, the <b>SortingFilter</b> 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.

This protocol allows protocol servers to notify protocol clients of application-level faults 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 allows protocol servers to perform implementation-specific authorization checks and notify protocol clients of authorization faults either using HTTP status codes or using 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.

#### 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:

- **Access control entry**
- **Action**
- **ActionParameter**
- **Association**
- **AssociationGroup**
- **AssociationReference**
- Cache Version Stamp
- **DataClass**
- **Entity**

- **FilterDescriptor**
- **Identifier**
- **LobSystem**
- **LobSystemInstance**
- **Localized name**
- **MetadataObject**
- **Method**
- **MethodInstance**
- **Model**
- **Parameter**
- **Property**
- **TypeDescriptor**
- **DefaultValue**

The implementations of the basic **Create**, **Read**, **Update**, and **Delete** stored procedures simply insert, read, update or delete items in each of these lists where 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 types are in the following descriptions.

#### **Property**

- Has fields **MetadataObjectId**, **Name**, **SettingId**, and **TypeName**.
- No containment or referential relationships.

#### **Localized name**

- Has fields **Lcid**, **MetadataObjectId**, **SettingId**, and **Value**.
- No containment or referential relationships.

#### **Access control entry**

- Has fields **PrincipalBinaryForm**, **PrincipalDisplayName**, **PrincipalName**, and **Rights**.
- No containment or referential relationships.

#### **MetadataObject**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, and **PartitionId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.

#### **Model**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, 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**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, and **LobSystemId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **LobSystem**.

### **DataClass**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **Active**, **LobSystemId**, **ModelId**, **Namespace**, and **Version**.
- 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**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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**

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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** MUST NOT reference any **TypeDescriptors**.
- The **Type** attribute is NOT "AssociationNavigator", "Associator", "Disassociator", "BulkAssociationNavigator", or "BulkAssociatedIdEnumerator".

### Association

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **MethodId**, **MethodInstanceType**, **ReturnTypeDescriptorId**, **IsDefault**, **AssociationGroupId**, **DestinationEntityName**, **DestinationEntityNamespace**, **SourceEntityNames**, and **SourceEntityNamespaces**.
- 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 **Type** attribute is "AssociationNavigator," "Associator," "Disassociator," "BulkAssociationNavigator," or "BulkAssociatedIdEnumerator."

### Parameter

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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 **ReturnPropertyDescriptor** of the **Parameter**.

### TypeDescriptor

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **AssociationId**, **AssociationReferenceEntityName**, **AssociationReferenceEntityNamespace**, **AssociationReferenceName**, **ChildrenContainRules**, **ContainsFilterDescriptor**, **ContainsIdentifier**, **ContainsReadOnly**, **FilterDescriptorId**, **Flags**, **IdentifierId**, **IdentifierReferenceEntityName**, **IdentifierReferenceEntityNamespace**, **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** or exactly one **TypeDescriptor**.

### FilterDescriptor

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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

- Has fields named **NeedsTypeReflectionResolution**, **WcfMarshallableValue**, **WcfMarshallableValueAssemblyQualifiedTypeName**, **WcfMarshallableValueTypeName**, **MethodInstanceId**, **MethodInstanceName**, and **TypeDescriptorId**.
- Contained by exactly one **TypeDescriptor**.

### AssociationGroup

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, and **EntityId**, **AssociationEntityNames**, **AssociationEntityNamespaces**, **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

- Has fields named **\_associationName**, **\_entityName**, **\_entityNamespace**, **AssociationGroupId**, **AssociationGroupObjectVersion**, **AssociationId**, **Id**, **IsReverse**, and **PartitionId**.
- References exactly one **Association**.
- Contained by exactly one **AssociationGroup**.

### Action

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **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

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **ActionId**, and **Index**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **Action**.

### Cache Version Stamp

- Has fields named **CacheLine**, **Counter**, **PartitionId**, and **Timestamp**.
- No containment or referential relationships.

### 3.1.2 Timers

None.

### 3.1.3 Initialization

None.

### 3.1.4 Message Processing Events and Sequencing Rules

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. The responses MUST be formatted as SOAP faults, using error complex types serialized as specified in section [2.2.4](#). The different error complex types have the following meanings:

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The protocol server encounters an invalid argument value while performing implementation-specific operations.

Error complex type	Condition
<b>ArgumentNullException</b> (section <a href="#">2.2.4.8</a> )	While performing implementation-specific operations, the protocol server encounters a NULL value for an argument that does not accept NULL values.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The protocol server encounters an argument with a value outside the range of permissible values while performing implementation-specific operations.
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The protocol server encounters an unrecoverable error while performing implementation-specific operations, or encounters a violation of constraints on the <b>metadata store</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The protocol server attempts an implementation-specific operation that is invalid for the current state of the protocol server.
<b>MetadataException</b> (section <a href="#">2.2.4.42</a> )	The protocol server discovers a violation of a syntactic or semantic constraint on a <b>MetadataModel</b> while performing implementation-specific operations.
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	Within an implementation-specific operation, the protocol server encounters XML that does not conform to the format specified in <a href="#">[MS-BDCMFFS]</a> , or XML conforming to <a href="#">[MS-BDCMFFS]</a> having invalid configuration of <b>MetadataObjects</b> or their attributes.

For the following operations, the protocol client MAY [<13>](#) specify values for a subset of the elements of the complex types that inherit from **MethodInstanceStruct** (section [2.2.4.45](#)), including **MethodObjectStruct** (section [2.2.4.44](#)) itself. 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, 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 2147483646, the object version MUST be set to 0.
- Otherwise, the object version MUST be incremented by 1.

Operation	MetadataObjects
<b>Activate</b>	The <b>Entity</b> specified by <b>entityStruct</b> element.
<b>AddAssociationReferenceToAssociationGroup</b>	The <b>AssociationGroup</b> specified by <b>associationGroupStruct</b> element.
<b>BulkSwitchActiveOrValidate</b>	The Entities specified by <b>entityStructs</b> element. <14>
<b>Deactivate</b>	The Entity specified by <b>entityStruct</b> element.
<b>DeleteAssociationReferenceFromAssociationGroup</b>	The AssociationGroup which contains the <b>AssociationReference</b> specified by <b>associationReferenceStruct</b> element.
<b>Update</b>	The MetadataObject specified by the <b>metadataObjectStruct</b> element.

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

Operation	Description
<b>Activate</b>	This operation is used to set the specified Entity active.
<b>AddAssociationReferenceToAssociationGroup</b>	This operation is used to create the specified AssociationReference in the specified AssociationGroup.
<b>AddEntityToModel</b>	This operation is used to add a reference to the specified Entity to the specified <b>Model</b> .
<b>BulkSwitchActiveOrValidate</b>	This operation is used to change the active version of the specified set of Entities, or validate the specified <b>Entities</b> for the purpose of changing the active versions and identify related errors.
<b>CheckPathInMethodInstances</b>	The <b>CheckPathInMethodInstances</b> operation retrieves whether the specified path, which conforms to [MS-BDCMFFS] section 2.1.5.5, corresponds to a <b>TypeDescriptor</b> in a <b>View</b> of the <b>MethodInstances</b> of the specified type contained by the specified <b>DataClass</b> , along with the <b>MetadataObjectId</b> of one such <b>MethodInstance</b> , if one exists.
<b>ClearLocalizedNames</b>	This operation is used to remove all <b>localized names</b> of the specified MetadataObject from the specified <b>Setting</b> .
<b>ClearProperties</b>	This operation is used to remove all <b>Properties</b> of the specified MetadataObject from the specified Setting.
<b>CopyAclAcrossChildren</b>	<p>This operation is used to clear the <b>ACEs</b> of the descendent MetadataObjects of a specified <b>MetadataObject</b>, then copy the ACEs of the specified <b>MetadataObject</b> to the descendent <b>MetadataObjects</b>. A given <b>MetadataObject</b> is a descendent of the specified <b>MetadataObject</b> if the <b>MetadataObject</b> that contains the given <b>MetadataObject</b> is also a descendent of the specified <b>MetadataObject</b>, or the <b>MetadataObject</b> is contained by the specified <b>MetadataObject</b> itself.</p> <p>If the specified <b>MetadataObject</b> is a <b>MetadataCatalog</b>, the protocol server MUST NOT change the ACEs of any <b>LobSystem</b> and their descendent <b>MetadataObjects</b> if the <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the <b>LobSystem</b>.</p>
<b>CopyAclAcrossChildrenForSetting</b>	This operation is used to clear the ACEs in a specified Setting on the descendent MetadataObjects of the specified <b>MetadataObject</b> , then copy the ACEs in the specified <b>Setting</b> on the specified

Operation	Description
	<p><b>MetadataObject</b> to the descendent <b>MetadataObjects</b>. A given <b>MetadataObject</b> is a descendent of the specified <b>MetadataObject</b> if the <b>MetadataObject</b> that contains the given <b>MetadataObject</b> is also a descendent of the specified <b>MetadataObject</b>, or the <b>MetadataObject</b> is contained by the specified <b>MetadataObject</b> itself.</p> <p>If the specified <b>MetadataObject</b> is a <b>MetadataCatalog</b>, the protocol server MUST NOT change the ACEs of any <b>LobSystem</b> and their descendent <b>MetadataObjects</b> if the security principal (2) in whose context the protocol client is operating is not authorized to edit the <b>LobSystem</b>.</p>
<b>CopyAclToSetting</b>	<p>This operation is used to delete the ACEs of the specified non-default <b>Setting</b> and the specified <b>MetadataObject</b>, then copy the ACEs of the default <b>Setting</b> and the specified <b>MetadataObject</b> to the specified <b>Setting</b> and the specified <b>MetadataObject</b>.</p>
<b>Deactivate</b>	<p>This operation is used to set the active version of an <b>Entity</b> as not active.</p>
<b>Delete</b>	<p>This operation is used to delete the specified <b>MetadataObject</b>.</p>
<b>DeleteAssociationReferenceFromAssociationGroup</b>	<p>This operation is used to remove an <b>AssociationReference</b> from an <b>AssociationGroup</b> by deleting the <b>AssociationReference</b>.</p>
<b>DeleteDefaultValueForTypeDescriptor</b>	<p>This operation is used to delete the <b>DefaultValue</b> of the specified <b>TypeDescriptor</b> for the specified <b>MethodInstance</b>.</p>
<b>DeleteNoCascade</b>	<p>This operation is used to delete the specified <b>MetadataObject</b> without deleting the <b>MetadataObjects</b> it references.</p>
<b>DeleteProxyAssemblyForLobSystem</b>	<p>This operation is used to delete a <b>Business Logic Module&lt;15&gt;</b> associated with the specified <b>LobSystem</b>.</p>
<b>EntityCreate</b>	<p>This operation is used to create an <b>Entity</b> in the specified <b>LobSystem</b>. The operation MUST copy ACEs from the specified <b>LobSystem</b> to the created <b>Entity</b>. If a <b>Model</b> is specified, the operation MUST associate the created <b>Entity</b> with the specified <b>Model</b>. Otherwise the created <b>Entity</b> is not referenced by any <b>Model</b>.</p>
<b>ExportPackage</b>	<p>This operation is used to retrieve an <b>XML</b> representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> <li>▪ <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b> along with their <b>Properties</b>, localized names and ACEs, if the "Model" value is specified for the</li> </ul>

Operation	Description
	<p><b>packageContents</b> element. The XML MUST conform to [MS-BDCMFFS] section 2.1.3.34.</p> <ul style="list-style-type: none"> <li>Localized names, Properties, and ACEs corresponding to <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b>, if the "Model" value is not specified for the <b>packageContents</b> element. The XML MUST conform to [MS-BDCMFFS] section 2.2.3.28.</li> </ul> <p>If the specified <b>MetadataModel</b> contains <b>LobSystems</b> that the security principal (2) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those <b>LobSystems</b>, and MUST NOT contain other <b>MetadataObjects</b> contained by <b>MetadataObjects</b> that are not contained in the result for this reason.</p>
<b>GenerateProxyAssemblyForLobSystem</b>	<p>This operation is used to force the protocol server to create an implementation-specific Business Logic Module&lt;16&gt; for the specified <b>LobSystem</b> to connect to the <b>line-of-business (LOB) system</b> described by the specified <b>LobSystem</b>. If a Business Logic Module is already available for the specified <b>LobSystem</b> this operation MUST NOT create another Business Logic Module and MUST complete successfully.</p>
<b>GetAccessControlEntries</b>	<p>This operation is used to retrieve the ACEs for the specified <b>MetadataObject</b> from the specified <b>Setting</b>. If there are no ACEs for the specified <b>MetadataObject</b> from the specified <b>Setting</b> and the value of the <b>fallback</b> element is "true", the protocol server MUST retrieve ACEs for the specified <b>MetadataObject</b> from the default <b>Setting</b>.</p>
<b>GetActionById</b>	<p>This operation is used to retrieve the specified <b>Action</b>.</p>
<b>GetActionParameterById</b>	<p>This operation is used to retrieve the specified <b>ActionParameter</b>.</p>
<b>GetActionParametersForAction</b>	<p>This operation is used to retrieve the <b>ActionParameters</b> of the specified <b>Action</b>.</p>
<b>GetActionsForEntity</b>	<p>This operation is used to retrieve the <b>Actions</b> of the specified <b>Entity</b>.</p>
<b>GetAllLocalizedNames</b>	<p>This operation is used to retrieve all localized names of the specified <b>MetadataObject</b>.</p>
<b>GetAllLocalizedNamesForMetadataObjectStruct</b>	<p>This operation is used to retrieve all the localized names of the specified <b>MetadataObject</b> for the specified <b>Setting</b>.</p>
<b>GetAllPartitionIds</b>	<p>This operation is deprecated from the protocol and MUST NOT be called.</p>

Operation	Description
<b>GetAllProperties</b>	This operation is used to retrieve all the Properties of the specified MetadataObject and the specified Setting.
<b>GetAllPropertiesForMetadataObjectStruct</b>	This operation is used to retrieve all the Properties of the specified MetadataObject from the specified Setting.
<b>GetAssociationById</b>	This operation is used to retrieve the <b>Association</b> with the specified MetadataObjectId.
<b>GetAssociationGroupById</b>	This operation is used to retrieve the AssociationGroup with the specified MetadataObjectId.
<b>GetAssociationGroupsForEntity</b>	This operation is used to retrieve the AssociationGroups of the Entity with the specified MetadataObjectId.
<b>GetAssociationMembersInRole</b>	This operation is used to retrieve the source or destination Entities of the specified Association.
<b>GetAssociationReferencesForAssociationGroup</b>	This operation is used to retrieve the AssociationReferences contained by the specified AssociationGroup.
<b>GetAssociationsForDataClass</b>	This operation is used to retrieve the Associations that are contained by the specified DataClass.
<b>GetAssociationsForEntityAndRole</b>	This operation is used to retrieve the Associations that references the specified Entity as <b>Association</b> source or <b>Association</b> destination.
<b>GetAssociationsForMethod</b>	This operation is used to retrieve the Associations that are contained by the specified <b>Method</b> .
<b>GetCacheInvalidationRecordsSince</b>	This operation is deprecated from the protocol and MUST NOT <a href="#">&lt;17&gt;</a> be called.
<b>GetChildTypeDescriptorsForTypeDescriptor</b>	This operation is used to retrieve the TypeDescriptors contained by the specified <b>TypeDescriptor</b> .
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b>	This operation is used to retrieve the TypeDescriptors that reference <b>Identifiers</b> and are descendent <b>TypeDescriptors</b> of the specified <b>TypeDescriptor</b> . A given <b>TypeDescriptor</b> is a descendent of the specified <b>TypeDescriptor</b> if the <b>TypeDescriptor</b> that contains the given <b>TypeDescriptor</b> is also a descendent of the specified <b>TypeDescriptor</b> , or the <b>TypeDescriptor</b> is contained by the specified <b>TypeDescriptor</b> itself. <a href="#">&lt;18&gt;</a>
<b>GetDataClassById</b>	This operation is used to retrieve the DataClass with the specified

Operation	Description
	MetadataObjectId.
<b>GetDataClassesForSystem</b>	This operation is used to retrieve DataClasses contained by the specified LobSystem.
<b>GetDefaultValuesForTypeDescriptor</b>	This operation is used to retrieve the DefaultValues of the specified TypeDescriptor.
<b>GetEntitiesForAssociationAndRole</b>	This operation is used to retrieve the Entities performing the role of source or destination for the specified Association.
<b>GetEntitiesForSystem</b>	This operation is used to retrieve Entities of the specified LobSystem.
<b>GetEntitiesLikeNameAndNamespace</b>	<p>This operation is used to retrieve the Entities that match the specified wildcard patterns for name and namespace.</p> <p>An <b>Entity</b> matches the pattern specified by <b>wildcardedName</b> if and only if <b>wildcardedName</b> matches the name of the <b>Entity</b>, or the localized name of the <b>Entity</b> with <b>LCID</b> 0, or the localized name of the <b>Entity</b> with the LCID specified by <b>callerCultureLcid</b>.</p> <p>An <b>Entity</b> matches the pattern specified by <b>wildcardedNamespace</b> if and only if <b>wildcardedNamespace</b> matches the namespace of the <b>Entity</b>.</p>
<b>GetEntitiesReferencedByModelId</b>	This operation is used to retrieve Entities which are referenced by the specified Model.
<b>GetEntityById</b>	This operation is used to retrieve the Entity with the specified MetadataObjectId.
<b>GetEntityCount</b>	This operation retrieves the number of Entity elements that are contained by the specified LobSystem.
<b>GetEntityNameAndNamespacesForAssociationAndRole</b>	This operation is used to retrieve the names and namespaces of Entities which are referenced by the specified Association. Only <b>Entities</b> in the specified association <b>role</b> of source or destination are returned.
<b>GetEntityWithNameAndNamespace</b>	This operation is used to retrieve the active Entity with the specified name and namespace in the specified <b>Partition</b> .
<b>GetEntityWithNameAndNamespaceAndVersion</b>	This operation is used to retrieve the Entity with the specified name, namespace, and version.
<b>GetFieldTypeDescriptorsByMethodInstance</b>	This operation is used to retrieve TypeDescriptors that correspond to <b>fields</b> for the MethodInstance with the specified name on the specified Entity.
<b>GetFilterDescriptorById</b>	This operation is used to retrieve the <b>FilterDescriptor</b> with the specified MetadataObjectId.

Operation	Description
<b>GetFilterDescriptorsForMethod</b>	This operation is used to retrieve the FilterDescriptors contained by the specified Method.
<b>GetIdentifierById</b>	This operation is used to retrieve the Identifier with the specified MetadataObjectId.
<b>GetIdentifiersForEntity</b>	This operation is used to retrieve the Identifiers contained by the specified Entity.
<b>GetImportProgress</b>	This operation is used to retrieve the progress of an <b>ImportPackageWithProgress</b> operation, using the unique identifier provided by the client at the creation of the import operation.
<b>GetLevelForTypeDescriptor</b>	This operation retrieves the depth of the specified TypeDescriptor in the <b>TypeDescriptor</b> tree that contains the specified <b>TypeDescriptor</b> . The <b>TypeDescriptor</b> tree for a specified <b>TypeDescriptor</b> consists of the specified <b>TypeDescriptor</b> with depth 0. Any <b>TypeDescriptor</b> that is contained by a <b>TypeDescriptor</b> in the <b>TypeDescriptor</b> tree is also in the tree with depth 1 plus the depth of the containing <b>TypeDescriptor</b> .
<b>GetLobSystemAllAssembliesBytes</b>	This operation is used to retrieve the Business Logic Modules associated with the specified LobSystem, if the systemType element of the specified <b>LobSystem</b> does not have the value "Custom". If the systemType element of the specified <b>LobSystem</b> has the value "Custom", the behavior of this operation is implementation-specific. <a href="#">&lt;19&gt;</a>
<b>GetLobSystemById</b>	This operation retrieves the LobSystem with the specified MetadataObjectId.
<b>GetLobSystemByName</b>	This operation is used to retrieve the specified LobSystem.
<b>GetLobSystemDataByLobSystem</b>	This operation is used to retrieve Business Logic Modules <a href="#">&lt;20&gt;</a> associated with the specified LobSystem.
<b>GetLobSystemInstanceById</b>	This operation is used to retrieve the <b>LobSystemInstance</b> with the specified MetadataObjectId.
<b>GetLobSystemInstancesForLobSystem</b>	This operation is used to retrieve the list of LobSystemInstances of the specified LobSystem. Only the <b>LobSystemInstances</b> that the security principal (2) in whose context the protocol client is operating is authorized to read <a href="#">&lt;21&gt;</a> are returned.
<b>GetLobSystemProxyAssemblyBytesByLobSystemId</b>	This operation is used to retrieve the implementation-specific Business Logic Module <a href="#">&lt;22&gt;</a> associated with the specified LobSystem.

Operation	Description
<b>GetLobSystemsLikeName</b>	<p>This operation is used to retrieve the LobSystems that match the specified wildcard pattern that the security principal (2) in whose context the protocol client is operating is authorized to read. &lt;23&gt;</p> <p>An <b>LobSystem</b> matches the wildcard pattern specified by <b>searchLikeName</b> if and only if <b>searchLikeName</b> matches the name of the <b>LobSystem</b>, or the localized name of the <b>LobSystem</b> with LCID 0, or the localized name of the <b>LobSystem</b> with the LCID specified by <b>callerCultureLcid</b>.</p>
<b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b>	<p>This operation is used to retrieve the LobSystems that the security principal (2) in whose context the protocol client is operating is authorized to read &lt;24&gt; that are referenced by Entities associated with the specified Model.</p>
<b>GetMethodById</b>	<p>This operation is used to retrieve the Method with the specified MetadataObjectId.</p>
<b>GetMethodInstanceById</b>	<p>This operation is used to retrieve the MethodInstance with the specified MetadataObjectId.</p>
<b>GetMethodInstancesForDataClass</b>	<p>This operation is used to retrieve the MethodInstances contained by the Methods contained by the specified DataClass.</p>
<b>GetMethodInstancesForMethod</b>	<p>This operation is used to retrieve the MethodInstances contained by the specified Method.</p>
<b>GetMethodsForDataClass</b>	<p>This operation is used to retrieve the Methods contained by the specified DataClass.</p>
<b>GetModelById</b>	<p>This operation is used to retrieve the Model with the specified MetadataObjectId.</p>
<b>GetModelByName</b>	<p>This operation is used to retrieve the specified Model.</p>
<b>GetModelsByEntityId</b>	<p>This operation is used to retrieve the Models that reference the specified Entity.</p>
<b>GetModelsByName</b>	<p>This operation is used to retrieve the Models that match the specified wildcard pattern.</p> <p>A <b>Model</b> matches the wildcard pattern specified by <b>wildcardedName</b> if and only if <b>wildcardedName</b> matches the name of the <b>Model</b>, or the localized name of the <b>Model</b> with LCID 0, or the localized name of the <b>Model</b> with the LCID specified by <b>callerCultureLcid</b>.</p>
<b>GetParameterById</b>	<p>This operation is used to retrieve the <b>Parameter</b> with the specified MetadataObjectId.</p>
<b>GetParametersForMethod</b>	<p>This operation is used to retrieve the Parameters of the specified Method.</p>



Operation	Description
<b>GetRootTypeDescriptorForParameter</b>	This operation is used to retrieve the <b>root TypeDescriptor</b> of the specified Parameter.
<b>GetServiceApplicationId</b>	This operation is used to retrieve the unique implementation-specific identifier of metadata store.
<b>GetSystemUtilityTypeNameForLobSystem</b>	This operation is used to retrieve the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.
<b>GetTypeDescriptorById</b>	This operation is used to retrieve the TypeDescriptor with the specified MetadataObjectId.
<b>GetTypeDescriptorsByNameAndLevelForParameter</b>	<p>This operation SHOULD &lt;25&gt; retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a <b>TypeDescriptor</b> is defined as follows:</p> <ul style="list-style-type: none"> <li>▪ The level of the root <b>TypeDescriptor</b> is 0.</li> <li>▪ The level of specified <b>TypeDescriptor</b> is 1 plus the level of the <b>TypeDescriptor</b> containing the specified <b>TypeDescriptor</b>.</li> </ul>
<b>GetTypeDescriptorsForFilterDescriptor</b>	This operation is used to retrieve TypeDescriptors referenced by the specified FilterDescriptor.
<b>GetTypeReflectorTypeNameForParameter</b>	This operation is used to retrieve the implementation-specific name of the type of the <b>TypeReflector</b> of the specified Parameter.
<b>GetXmlSchemaForView</b>	<p>This operation is used to retrieve an <b>XML schema definition (XSD)</b> that specifies a data structure that can store the data corresponding to a View that corresponds to the specified MethodInstance. The resulting XSD MUST conform to <a href="#">[XMLSCHEMA1]</a> and <a href="#">[XMLSCHEMA2]</a>. The following types of <b>MethodInstance</b> have a <b>View</b> corresponding to them:</p> <ul style="list-style-type: none"> <li>▪ <b>SpecificFinder</b></li> <li>▪ <b>BulkSpecificFinder</b></li> <li>▪ <b>Finder</b></li> <li>▪ <b>AssociationNavigator</b></li> <li>▪ <b>BulkAssociationNavigator</b></li> <li>▪ <b>IdEnumerator</b></li> <li>▪ <b>ChangedIdEnumerator</b></li> </ul>

Operation	Description
	<ul style="list-style-type: none"> <li>▪ DeletedIdEnumerator</li> <li>▪ BulkIdEnumerator</li> <li>▪ Creator</li> <li>▪ Updater</li> </ul> <p>The MethodInstances of any other type do not have a View associated with them.</p>
HaveRights	<p>The <b>HaveRights</b> operation retrieves whether the security principal (2) in whose context the protocol client is operating has the specified permission on the specified <b>MetadataObject</b> based on the permissions specified by the ACEs in the specified Setting associated with the specified <b>MetadataObject</b>.</p>
ImportPackage	<p>This operation is used to create the following objects in the metadata store:</p> <ul style="list-style-type: none"> <li>▪ MetadataObjects contained by the specified <b>MetadataModel</b> along with their properties, localized names and ACEs, if the "Model" value is specified for the <b>packageContents</b> element. The <b>MetadataModel</b> MUST be specified as XML that conforms to [MS-BDCMFFS] section 2.1.3.34. If the <b>MetadataModel</b> contains an <b>LobSystem</b> that has the same name and type as an <b>LobSystem</b> in the metadata store, the <b>LobSystem</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all <b>LobSystemInstances</b> contained by that <b>LobSystem</b> along with properties, localized names and ACEs of the ignored <b>MetadataObjects</b>. If the <b>MetadataModel</b> contains an <b>Entity</b> that has the same name, namespace, and version as an <b>Entity</b> in the metadata store, and if the names of the <b>LobSystems</b> that contain these <b>Entities</b> are identical, the <b>Entity</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all <b>MetadataObjects</b> contained by the <b>Entity</b> or other ignored <b>MetadataObjects</b> along with the properties, localized names, and ACEs of the ignored <b>MetadataObjects</b>.</li> <li>▪ Localized names, <b>Properties</b>, and ACEs corresponding to <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b>, if "Model" value is not specified for the <b>packageContents</b> element. The <b>MetadataModel</b> MUST be specified as an XML that conforms to [MS-BDCMFFS] section 2.2.3.28.</li> </ul>
ImportPackageWithProgress	<p>This operation is used to create the following</p>

Operation	Description
	<p>objects in the metadata store:</p> <ul style="list-style-type: none"> <li>▪ MetadataObjects contained by the specified MetadataModel along with their Properties, localized names and ACEs, if the "Model" value is specified for the <b>packageContents</b> element. The <b>MetadataModel</b> MUST be specified as XML that conforms to [MS-BDCMFFS] section 2.1.3.34. If the <b>MetadataModel</b> contains an LobSystem that has the same name and type as an <b>LobSystem</b> in the metadata store, the <b>LobSystem</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all LobSystemInstances contained by that <b>LobSystem</b> along with properties, localized names, and ACEs of the ignored <b>MetadataObjects</b>. If the <b>MetadataModel</b> contains an Entity that has the same name, namespace and version as an <b>Entity</b> in the metadata store, and if the names of the <b>LobSystems</b> that contain these <b>Entities</b> are identical, the <b>Entity</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all <b>MetadataObjects</b> contained by the <b>Entity</b> or other ignored <b>MetadataObjects</b> along with the properties, localized names, and ACEs of the ignored <b>MetadataObjects</b>.</li> <li>▪ Localized names, <b>Properties</b>, and ACEs corresponding to <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b>, if "Model" value is not specified for the <b>packageContents</b> element. The <b>MetadataModel</b> MUST be specified as an XML that conforms to [MS-BDCMFFS] section 2.2.3.28.</li> </ul> <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 <b>GetImportProgress</b> operation with the specified identifier.</p>
<b>IsMethodInstantiated</b>	This operation is used to determine if the specified Method contains at least one MethodInstance.
<b>IsParameterReferencedByMethodInstance</b>	The <b>IsParameterReferencedByMethodInstance</b> operation checks whether the specified Parameter contains any TypeDescriptor that is the <b>ReturnPropertyDescriptor</b> of any MethodInstance contained by the Method containing the <b>Parameter</b> .
<b>MetadataObjectCreate</b>	This operation is used to create a MetadataObject in the metadata store. If the

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

Operation	Description
	<p>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"> <li>▪</li> <li>▪ Action element as specified in [MS-BDCMFFS] section 2.1.3.3.</li> <li>▪ ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4.</li> <li>▪ Association element as specified in [MS-BDCMFFS] section 2.1.3.7.</li> <li>▪ AssociationGroup element as specified in [MS-BDCMFFS] section 2.1.3.8.</li> <li>▪ Entity element as specified in [MS-BDCMFFS] section 2.1.3.16.</li> <li>▪ Identifier element as specified in [MS-BDCMFFS] section 2.1.3.19.</li> <li>▪ FilterDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.17.</li> <li>▪ LobSystem element as specified in [MS-BDCMFFS] section 2.1.3.23.</li> <li>▪ LobSystemInstance element as specified in [MS-BDCMFFS] section 2.1.3.24.</li> <li>▪ Method element as specified in [MS-BDCMFFS] section 2.1.3.30.</li> <li>▪ MethodInstance element as specified in [MS-BDCMFFS] section 2.1.3.31.</li> <li>▪ Parameter element as specified in [MS-BDCMFFS] section 2.1.3.37.</li> </ul>
<p><b>MetadataObjectWriteXml</b></p>	<p>The <b>MetadataObjectWriteXml</b> operation is used to retrieve an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> <li>▪ MetadataObjects contained by the MetadataModel along with their Properties, localized names, and ACEs, if the "Model" value is specified for the <b>packageContents</b> element. The XML MUST conform to [MS-BDCMFFS] section 2.1.3.34.</li> <li>▪ Localized names, <b>Properties</b>, and ACEs corresponding to <b>MetadataObjects</b> contained by the <b>MetadataModel</b>, if the "Model" value is not specified for the <b>packageContents</b> element. The XML MUST conform to [MS-BDCMFFS] section 2.2.3.28.</li> </ul> <p>The <b>MetadataModel</b> used for this operation</p>

Operation	Description
	<p>MUST contain the specified <b>MetadataObject</b>, and other <b>MetadataObjects</b> that are contained by the <b>MetadataModel</b>; it MUST NOT contain any other <b>MetadataObjects</b>.</p> <p>If the specified <b>MetadataModel</b> contains <b>LobSystems</b> that the security principal (2) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those <b>LobSystems</b>, and MUST NOT contain other <b>MetadataObjects</b> contained by <b>MetadataObjects</b> that are not contained in the result for this reason.</p>
<b>ModelReadXml</b>	<p>This operation is used to create <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b> along with their <b>Properties</b>, localized names, and ACEs in the metadata store. The <b>MetadataModel</b> MUST be specified as an XML that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.1.3.34. If the <b>MetadataModel</b> contains an <b>LobSystem</b> that has the same name and type as an <b>LobSystem</b> in the metadata store, the <b>LobSystem</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all <b>LobSystemInstances</b> contained by that <b>LobSystem</b> and <b>Properties</b>, localized names, and ACEs of the ignored <b>MetadataObjects</b>. If the <b>MetadataModel</b> contains an <b>Entity</b> that has the same name, namespace and version as an <b>Entity</b> in the metadata store, and if the names of the <b>LobSystems</b> that contain these <b>Entities</b> are identical, the <b>Entity</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all <b>MetadataObjects</b> contained by the <b>Entity</b> or other ignored <b>MetadataObjects</b> and the <b>Properties</b>, localized names, and ACEs of the ignored <b>MetadataObjects</b>.</p>
<b>ReadSlicedXml</b>	<p>This operation is deprecated from the protocol and MUST NOT be called.</p>
<b>RemoveEntityFromModel</b>	<p>This operation is used to remove the reference to the specified <b>Entity</b> from the specified <b>Model</b>.</p>
<b>RemoveLocalizedName</b>	<p>This operation is used to remove the localized name with the specified <b>LCID</b> from the specified <b>MetadataObject</b>.</p>
<b>RemoveProperty</b>	<p>This operation is used to remove the specified <b>Property</b> from the specified <b>MetadataObject</b>.</p>
<b>SaveLocalizedName</b>	<p>This operation is used to add or replace a localized name for the specified <b>MetadataObject</b>. If a localized name with the same <b>LCID</b> as the specified <b>LCID</b> already exists for the specified <b>MetadataObject</b>, the protocol server MUST replace the localized name of the specified <b>MetadataObject</b> with</p>

Operation	Description
	the specified localized name.
<b>SaveProperty</b>	This operation is used to add or replace a <b>Property</b> for the specified <b>MetadataObject</b> . If a <b>Property</b> with the same name as the specified <b>Property</b> already exists for the specified <b>MetadataObject</b> , the protocol server MUST replace the <b>Property</b> of the <b>MetadataObject</b> with the specified <b>Property</b> .
<b>SetAccessControlEntries</b>	This operation is used to set an <b>access control list (ACL)</b> to the specified <b>MetadataObject</b> . The protocol server MUST delete all ACEs of the specified <b>MetadataObject</b> for the specified <b>Setting</b> , and then adds the specified ACEs to the specified <b>MetadataObject</b> .
<b>SetDefaultActionForEntity</b>	This operation is used to set the default <b>Action</b> for the specified <b>Entity</b> .
<b>SetDefaultValuesForTypeDescriptor</b>	This operation is used to set the <b>DefaultValue</b> of the <b>TypeDescriptor</b> with the <b>MetadataObjectId</b> specified by the <b>typeDescriptorId</b> element of the specified <b>DefaultValueStruct</b> (section 2.2.4.29) complex type for the <b>MethodInstance</b> with the <b>MetadataObjectId</b> specified by the <b>methodInstanceId</b> element of the specified <b>DefaultValueStruct</b> (section 2.2.4.29).
<b>SetLobSystemDataByLobSystemId</b>	This operation is deprecated from the protocol and MUST NOT be called.
<b>TypeDescriptorCreate</b>	This operation is used to create a <b>TypeDescriptor</b> in the metadata store.
<b>TypeDescriptorMergeXml</b>	This operation is used to merge the <b>Properties</b> and localized names contained by the <b>TypeDescriptors</b> in the specified <b>MetadataModel</b> into an existing <b>TypeDescriptor</b> in the metadata store. The <b>MetadataModel</b> MUST be specified as a <b>Well-Formed External Parsed Entity</b> according to [XML] section 4.3.2 and MUST have as a root element the <b>TypeDescriptor</b> element as specified in [MS-BDCMFFS] section 2.2.3.34.
<b>TypeDescriptorReadXml</b>	This operation is used to create the <b>TypeDescriptors</b> contained by the specified <b>MetadataModel</b> , along with their <b>Properties</b> and localized names, in the metadata store. The <b>MetadataModel</b> MUST be specified as a <b>Well-Formed External Parsed Entity</b> according to [XML] section 4.3.2 and MUST have as a root element the <b>TypeDescriptor</b> element as specified in [MS-BDCMFFS] section 2.1.3.43.
<b>Update</b>	This operation is used to update a <b>MetadataObject</b> in the metadata store.

Operation	Description
<b>WriteSlicedXml</b>	This operation is deprecated from the protocol and MUST NOT <a href="#">&lt;26&gt;</a> be called.

### 3.1.4.1 Activate

This operation is used to set the specified **Entity** active.

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:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage"
    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 one of the conditions in the following table is met.



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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (1)</b> in whose context the protocol client is operating is not authorized to edit the specified <b>Entity</b> .
<b>ConcurrentModificationExceptionState</b> (section 2.2.4.27)	The specified <b>Entity</b> 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 <b>Entity</b> . For example, this error can be triggered when one context reads the given <b>Entity</b> , after which another context updates the same <b>Entity</b> , and then the original context tries to update.
<b>InvalidOperationException</b> (section 2.2.4.38)	The operation cannot be performed for one of the following reasons: <ul style="list-style-type: none"> <li>The specified <b>Entity</b> or another version of the specified <b>Entity</b> is already active.</li> <li>The protocol server encountered reference errors as specified in section 3.1.4.4.3.2 when performing this operation.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Entity</b> 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
<b>BusinessDataCatalogSharedService_Activate_InputMessage</b>	The request WSDL message for the <b>Activate WSDL operation</b> .
<b>BusinessDataCatalogSharedService_Activate_OutputMessage</b>	The response WSDL message for the <b>Activate WSDL operation</b> .

#### 3.1.4.1.1.1 BusinessDataCatalogSharedService\_Activate\_InputMessage

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

The **SOAP action** value is:

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
<b>Activate</b>	The input data for the <b>Activate WSDL operation</b> .
<b>ActivateResponse</b>	The result data for the <b>Activate WSDL operation</b> .

#### 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**.

#### 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**.

#### 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

This operation is used to create 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the specified <b>AssociationGroup</b> .
<b>ConcurrentModificationExceptionState</b> (section 2.2.4.27)	The specified <b>AssociationGroup</b> 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 <b>AssociationGroup</b> . For example, this error can be raised when one context reads the <b>AssociationGroup</b> , another context updates the same <b>AssociationGroup</b> , and then the original context tries to update.
<b>DuplicateMetadataObjectExceptionState</b> (section 2.2.4.30)	Another <b>AssociationReference</b> in the specified <b>AssociationGroup</b> references the <b>Association</b> that is referenced by the specified <b>AssociationReference</b> .
<b>ExceededMetadataobjectLimitExceptionState</b> (section 2.2.4.32)	The specified <b>AssociationGroup</b> already contains the implementation-specific maximum number of <b>AssociationReferences</b> .
<b>InvalidOperationException</b> (section 2.2.4.38)	The operation cannot be performed because <b>Entity</b> containing the <b>AssociationGroup</b> 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
<b>BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage</b>	The request WSDL message for the <b>AddAssociationReferenceToAssociationGroup WSDL operation</b> .
<b>BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage</b>	The response WSDL message for the <b>AddAssociationReferenceToAssociationGroup WSDL operation</b> .

### 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
<b>AddAssociationReferenceToAssociationGroup</b>	The input data for the <b>AddAssociationReferenceToAssociationGroup WSDL operation</b> .
<b>AddAssociationReferenceToAssociationGroupResponse</b>	The result data for the <b>AddAssociationReferenceToAssociationGroup WSDL operation</b> .

### 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**.

**associationReferenceStruct:** The **AssociationReference**.

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

**AddAssociationReferenceToAssociationGroupResult:** The **AssociationGroup**.

**associationReferenceStruct:** The **AssociationReference**. [<27>](#)

### 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

This operation is used to add 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMessage" 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the specified <b>Model</b> .
<b>MetadataObjectnotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>Model</b> does not exist.
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The specified <b>Entity</b> 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
<b>BusinessDataCatalogSharedService_AddEntityToModel_InputMessage</b>	The request WSDL message for the <b>AddEntityToModel WSDL operation</b> .
<b>BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage</b>	The response WSDL message for the <b>AddEntityToModel WSDL operation</b> .

#### 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
<b>AddEntityToModel</b>	The input data for the <b>AddEntityToModel WSDL operation</b> .
<b>AddEntityToModelResponse</b>	The result data for the <b>AddEntityToModel WSDL operation</b> .



### 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**.

**entityStruct:** The **Entity**.

### 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 BulkSwitchActiveOrValidate

This operation is used to change the active version of the specified set of **Entities**, or validate the specified **Entities** for the purpose of changing the active versions and identify 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate ArgumentExceptionFau
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/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_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/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeEx
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/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFau
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/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperati
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/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExcepti
onStateFault 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The value of the <b>validate</b> element is "false" and the <b>security principal (1)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>Entities</b> , or the currently active versions of the specified <b>Entities</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>entityStructs</b> element in <b>BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage</b> has no elements.
<b>ConcurrentModificationException State</b> (section <a href="#">2.2.4.27</a> )	At least one of the specified <b>Entities</b> 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 <b>Entity</b> . For example, this error can be triggered when one context reads the given <b>Entity</b> , after which another context updates the same <b>Entity</b> , and then the original context tries to update the same <b>Entity</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The operation cannot be performed because the value of the validate element is <b>false</b> and the protocol server encountered reference errors as specified in <b>ActivationErrorRecordStruct</b> (section 3.1.4.4.3.2) when performing this operation.
<b>MetadataObjectNotFoundExeptionState</b> (section <a href="#">2.2.4.43</a> )	One or more of the specified <b>Entities</b> does not exist.

### 3.1.4.4.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage</b>	The request WSDL message for the <b>BulkSwitchActiveOrValidate WSDL operation</b> .
<b>BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage</b>	The response WSDL message for the <b>BulkSwitchActiveOrValidate WSDL operation</b> .

#### 3.1.4.4.1.1 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.

### 3.1.4.4.1.2 BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_Output Message

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

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

#### 3.1.4.4.2 Elements

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

Element	Description
<b>BulkSwitchActiveOrValidate</b>	The input data for the <b>BulkSwitchActiveOrValidate WSDL operation</b> .
<b>BulkSwitchActiveOrValidateResponse</b>	The result data for the <b>BulkSwitchActiveOrValidate WSDL operation</b> .

##### 3.1.4.4.2.1 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>
```

**entityStructs:** The **Entities** that are to be set active. At least one **Entity** **MUST** be specified. If the value of the **validate** element is **false** the protocol server **MUST** set previously active versions of the specified **Entities** as not active upon successful finish of this operation.

**validate:** This element specifies if the state of the data stored in the protocol server can be changed or not. A value of **false** indicates the protocol server **MUST** change the active versions of the **Entities**. A value of **true** indicates that the protocol server **MUST** validate the specified **Entities** for the purpose of changing the active versions and return any associated errors, and the protocol server **MUST NOT** change the state of the data stored in the protocol server.

**modelStruct:** The **Model** to add the specified **Entities** to. If the value of this element is not NULL and the value of the **validate** element is **false**, this operation **MUST** add all the specified **Entities** to the specified **Model** upon successful operation. [<28>](#)

##### 3.1.4.4.2.2 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 if the value of the **validate** element is "true". [<29>](#)

### 3.1.4.4.3 Complex Types

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

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

#### 3.1.4.4.3.1 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.

#### 3.1.4.4.3.2 ActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<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** in error.

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

**containingEntityNamespace:** The namespace of the **Entity** that is in error or contains the **MetadataObject** 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 component of the **Entity**. Revision MUST be the revision component 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** 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 value MUST be listed in the following table.

Value	Description
-1003	A <b>TypeDescriptor</b> is in error because it references an <b>Identifier</b> that doesn't exist in the specified <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , <b>containingParameterName</b> , <b>containingTypeDescriptorName</b> , <b>containingTypeDescriptorId</b> , <b>tDIDReferenceName</b> , <b>tDIDReferenceTypeName</b> , <b>tDIDEntityReferenceName</b> , and <b>tDIDEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1004	A <b>TypeDescriptor</b> is in error because it references an <b>Association</b> that doesn't exist in the specified <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , <b>containingParameterName</b> , <b>containingTypeDescriptorName</b> , <b>containingTypeDescriptorId</b> , <b>tDAssociationReferenceName</b> , <b>tDAssociationEntityReferenceName</b> , and <b>tDAssociationEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1005	An <b>Entity</b> is in error because the <b>TypeDescriptors</b> that are contained in the Parameters of its Methods are referencing only non-empty strict subset of <b>Identifiers</b> of an active <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , <b>tDIDEntityReferenceName</b> , and <b>tDIDEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1008	An <b>AssociationReference</b> is in error because it references an <b>Association</b> that doesn't exist in the specified <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingAssociationGroupName</b> , <b>aGAssociationReferenceName</b> , <b>aGAssociationEntityReferenceName</b> , and <b>aGAssociationEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1011	An <b>Association</b> is in error because the <b>Entity</b> containing the <b>Association</b> is not contained by the same <b>LoSystem</b> as the destination <b>Entity</b> of the <b>Association</b> . For this error code, <b>ContainingEntityNamespace</b> , <b>ContainingEntityName</b> , <b>ContainingEntityVersion</b> , <b>ContainingMethodName</b> , and <b>AGAssociationReferenceName</b> all MUST NOT be NULL. All other columns MUST be ignored by the protocol client.
-1012	An <b>Association</b> is in error because all of the conditions in the following list are <b>true</b> : <ul style="list-style-type: none"> <li>▪ The destination <b>Entity</b> of the <b>Association</b> contains <b>MethodInstance</b>, and there exists a <b>TypeDescriptor</b> contained by the <b>Parameter</b> that contains the <b>ReturnPropertyDescriptor</b> of this <b>MethodInstance</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references an <b>Identifier</b> of a source <b>Entity</b> of the <b>Association</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references the <b>Association</b>.</li> </ul>

Value	Description
	<ul style="list-style-type: none"> <li>▪ The <b>ReturnTypeDescriptor</b> of the <b>Association</b> has the <b>IsCollection</b> flag not set.</li> </ul> <p>Or, all of the conditions in the following list are <b>true</b>:</p> <ul style="list-style-type: none"> <li>▪ The source <b>Entity</b> of the <b>Association</b> contains a <b>MethodInstance</b>, and there exists a <b>TypeDescriptor</b> contained by the <b>Parameter</b> that contains the <b>ReturnTypeDescriptor</b> of this <b>MethodInstance</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references an <b>Identifier</b> of the destination <b>Entity</b> of the <b>Association</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references the <b>Association</b>.</li> <li>▪ The <b>ReturnTypeDescriptor</b> of the <b>Association</b> has the <b>IsCollection</b> flag set.</li> </ul> <p>For this error code, <b>ContainingEntityNamespace</b>, <b>ContainingEntityName</b>, <b>ContainingEntityVersion</b>, <b>ContainingMethodName</b>, and <b>AGAssociationReferenceName</b> all MUST NOT be NULL. All other columns MUST be ignored by the protocol client.</p>
-800	<p>An <b>AssociationGroup</b> is in error because all <b>Associations</b> referenced by the <b>AssociationReferences</b> contained by this <b>AssociationGroup</b> with the <b>IsReverse</b> attribute set to <b>false</b> do not have same sources. For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-801	<p>An <b>AssociationGroup</b> is in error because one of the following conditions is <b>true</b>:</p> <ul style="list-style-type: none"> <li>▪ The <b>Entity</b> containing <b>AssociationGroup</b> is not the destination of this <b>AssociationGroup</b>.</li> <li>▪ The <b>AssociationGroup</b> contains <b>AssociationReferences</b> with <b>IsReverse</b> attribute is set to true, but the <b>AssociationGroup</b> has more than one source.</li> </ul> <p>For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-802	<p>An <b>AssociationGroup</b> is in error because there is more than one <b>Association</b> which is an <b>Associator</b> or a <b>Disassociator</b> referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b>. For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-803	<p>An <b>AssociationGroup</b> is in error because one of the following conditions is <b>true</b>:</p> <ul style="list-style-type: none"> <li>▪ There are more than one <b>Association</b> which is an <b>BulkAssociatedIdEnumerator</b> referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b> with <b>IsReverse</b> attribute is set to <b>false</b>.</li> <li>▪ There are more <b>Associations</b> that are <b>BulkAssociatedIdEnumerators</b> referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b> with <b>IsReverse</b> attribute is set to <b>true</b>, than the number of sources of this <b>AssociationGroup</b>.</li> </ul> <p>For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-804	<p>An <b>AssociationGroup</b> is in error because it contains an <b>AssociationReference</b> which has <b>IsReverse</b> attribute set to <b>true</b>, but the <b>Association</b> it references is not an <b>AssociationNavigator</b>, a <b>BulkAssociationNavigator</b> or a <b>BulkAssociatedIdEnumerator</b>. For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>



Value	Description
-805	An <b>Association</b> is in error because it is a <b>BulkAssociationNavigator</b> and it is not referenced from an <b>AssociationReference</b> that is contained in an <b>AssociationGroup</b> which has another <b>AssociationReference</b> that references an <b>Association</b> that is an <b>AssociationNavigator</b> and has the same value for <b>IsReverse</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , and <b>aGAssociationReferenceName</b> all MUST NOT be NULL. If the <b>Association</b> is referenced from an <b>AssociationReference</b> , <b>containingAssociationGroupName</b> also MUST NOT be NULL; otherwise, it MUST be NULL. Values of all other elements MUST be ignored by the protocol client.
-806	An <b>Association</b> is in error because it is referenced by two or more <b>AssociationReferences</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , and <b>aGAssociationReferenceName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.

**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.

#### 3.1.4.4.4 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 CheckPathInMethodInstances

The **CheckPathInMethodInstances** operation retrieves whether the specified path, which conforms to [\[MS-BDCMFFS\]](#) section 2.1.5.5, 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/BusinessDataCatalogSharedService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The specified path did not conform to the specification for <b>TypeDescriptorPathStrings</b> in [MS-BDCMFFS] section 2.1.5.5.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified DataClass does

Error complex type	Condition
	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
<b>BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage</b>	The request WSDL message for the <b>CheckPathInMethodInstances WSDL operation</b> .
<b>BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage</b>	The response WSDL message for the <b>CheckPathInMethodInstances WSDL operation</b> .

#### 3.1.4.5.1.1 BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage

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

The **SOAP action** value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances>

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

#### 3.1.4.5.1.2 BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage

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

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

### 3.1.4.5.2 Elements

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

Element	Description
<b>CheckPathInMethodInstances</b>	The input data for the <b>CheckPathInMethodInstances WSDL operation</b> .
<b>CheckPathInMethodInstancesResponse</b>	The result data for the <b>CheckPathInMethodInstances WSDL operation</b> .

### 3.1.4.5.2.1 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 **ReturnTypeInfoDescriptor** of the **MethodInstance**. The value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section 2.1.5.5.

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

**partitionId:** An **empty GUID**.

### 3.1.4.5.2.2 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 0, 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.

### 3.1.4.5.3 Complex Types

None.

### 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 ClearLocalizedNames

This operation is used to remove 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"
    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/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.2)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the specified <b>MetadataObject</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> 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
<b>BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage</b>	The request WSDL message for the <b>ClearLocalizedNames WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage</b>	The response WSDL message for the <b>ClearLocalizedNames WSDL operation</b> .

#### 3.1.4.6.1.1 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.

### 3.1.4.6.1.2 BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage

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

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

### 3.1.4.6.2 Elements

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

Element	Description
<b>ClearLocalizedNames</b>	The input data for the <b>ClearLocalizedNames WSDL operation</b> .
<b>ClearLocalizedNamesResponse</b>	The result data for the <b>ClearLocalizedNames WSDL operation</b> .

#### 3.1.4.6.2.1 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** of which the **localized names** will be removed. The **partition** of this **MetadataObject** MUST be the **empty GUID**.

**settingId:** The **Setting** from which to delete the localized names.

#### 3.1.4.6.2.2 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>
```

### 3.1.4.6.3 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 ClearProperties

This operation is used to remove 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessage" 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.2)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the specified <b>MetadataObject</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> 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
<b>BusinessDataCatalogSharedService_ClearProperties_InputMessage</b>	The request WSDL message for the <b>ClearProperties WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ClearProperties_OutputMessage</b>	The response WSDL message for the <b>ClearProperties WSDL operation</b> .

#### 3.1.4.7.1.1 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.

### 3.1.4.7.1.2 BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage

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

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

#### 3.1.4.7.2 Elements

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

Element	Description
<b>ClearProperties</b>	The input data for the <b>ClearProperties WSDL operation</b> .
<b>ClearPropertiesResponse</b>	The result data for the <b>ClearProperties WSDL operation</b> .

##### 3.1.4.7.2.1 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:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The **MetadataObject** of which the **Properties** will be removed.

**settingId:** The **Setting** from which to delete the **Properties**.

##### 3.1.4.7.2.2 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>
```

##### 3.1.4.7.3 Complex Types

None.

##### 3.1.4.7.4 Simple Types

None.

##### 3.1.4.7.5 Attributes



```

edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren MetadataExceptionStateFault 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.2</a> )	The security principal (2) in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> 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
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage</b>	The request WSDL message for the <b>CopyAclAcrossChildren WSDL operation</b> .
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage</b>	The response WSDL message for the <b>CopyAclAcrossChildren WSDL operation</b> .

### 3.1.4.8.1.1 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.

### 3.1.4.8.1.2 BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage

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

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

### 3.1.4.8.2 Elements

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

Element	Description
<b>CopyAclAcrossChildren</b>	The input data for the <b>CopyAclAcrossChildren WSDL operation</b> .
<b>CopyAclAcrossChildrenResponse</b>	The result data for the <b>CopyAclAcrossChildren WSDL operation</b> .

#### 3.1.4.8.2.1 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**.

#### 3.1.4.8.2.2 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>

### 3.1.4.8.3 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 CopyAclAcrossChildrenForSetting

This operation is used to clear the **ACEs** in a specified **Setting** on the descendent **MetadataObjects** of the specified **MetadataObject**, then copy 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** itself.

If the specified **MetadataObject** is a **MetadataCatalog**, the protocol server MUST NOT change the ACEs of any **LobSystem** and their descendent **MetadataObjects** if the **security principal (2)** 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
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/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_MetadataExcepti
onStateFault 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> 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
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage</b>	The request WSDL message for the <b>CopyAclAcrossChildrenForSetting WSDL operation</b> .
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage</b>	The response WSDL message for the <b>CopyAclAcrossChildrenForSetting WSDL operation</b> .

#### 3.1.4.9.1.1 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.

#### 3.1.4.9.1.2 BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage

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

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

### 3.1.4.9.2 Elements

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

Element	Description
<b>CopyAclAcrossChildrenForSetting</b>	The input data for the <b>CopyAclAcrossChildrenForSetting WSDL operation</b> .
<b>CopyAclAcrossChildrenForSettingResponse</b>	The result data for the <b>CopyAclAcrossChildrenForSetting WSDL operation</b> .

#### 3.1.4.9.2.1 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**.

**settingId:** The **Setting** to copy the **ACEs** to and from.

### 3.1.4.9.2.2 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>

```

### 3.1.4.9.3 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 CopyAclToSetting

This operation is used to delete the **ACEs** of the specified non-default **Setting** and the specified **MetadataObject**, then copy the ACEs of the default **Setting** and the specified **MetadataObject** to the specified **Setting** and 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/BusinessDataCatalogShar

```

```

edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_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/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_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/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_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/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 one of the conditions in the following table is met.

If any 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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified ACEs.
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b>

Error Complex Type	Condition
	of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist in the <b>metadata store</b> .

### 3.1.4.10.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage</b>	The request WSDL message for the <b>CopyAclToSetting WSDL operation</b> .
<b>BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage</b>	The response WSDL message for the <b>CopyAclToSetting WSDL operation</b> .

#### 3.1.4.10.1.1 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.

#### 3.1.4.10.1.2 BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage

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

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

### 3.1.4.10.2 Elements

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

Element	Description
<b>CopyAclToSetting</b>	The input data for the <b>CopyAclToSetting WSDL operation</b> .
<b>CopyAclToSettingResponse</b>	The result data for the <b>CopyAclToSetting WSDL operation</b> .

### 3.1.4.10.2.1 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 an **empty GUID**.

**settingId:** The **Setting** to write the ACEs to.

### 3.1.4.10.2.2 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>
```

### 3.1.4.10.3 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 Deactivate

This operation is used to set the active version of an **Entity** as 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol

Error complex type	Condition
	client is operating is not authorized to edit the specified <b>Entity</b> .
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>Entity</b> 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 <b>Entity</b> . For example, this error can be triggered when a thread reads the given <b>Entity</b> , after which another thread updates the same <b>Entity</b> , and then the original thread tries to update.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions is satisfied: <ul style="list-style-type: none"> <li>▪ This operation cannot be performed because the protocol server encountered reference errors (as specified in section <a href="#">3.1.4.4.3.2</a>) when performing this operation.</li> <li>▪ This operation cannot be performed because the</li> </ul>

Error complex type	Condition
	specified <b>Entity</b> is already not active.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>Entity</b> does not exist.

### 3.1.4.11.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_Deactivate_InputMessage</b>	The request WSDL message for the <b>Deactivate WSDL operation</b> .
<b>BusinessDataCatalogSharedService_Deactivate_OutputMessage</b>	The response WSDL message for the <b>Deactivate WSDL operation</b> .

#### 3.1.4.11.1.1 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.

#### 3.1.4.11.1.2 BusinessDataCatalogSharedService\_Deactivate\_OutputMessage

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

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

### 3.1.4.11.2 Elements

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

Element	Description
<b>Deactivate</b>	The input data for the <b>Deactivate WSDL operation</b> .
<b>DeactivateResponse</b>	The result data for the <b>Deactivate WSDL operation</b> .

### 3.1.4.11.2.1 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 as not active.

### 3.1.4.11.2.2 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 as not active as a result of this operation.

### 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 Delete

This operation is used to delete 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: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_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/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 one of the conditions in the following table is met.

If any 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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , or the specified <b>MetadataObject</b> is a <b>Model</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify one or more of the <b>LobSystems</b> which contain one or more <b>Entity</b> referenced by the specified <b>Model</b> .
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>MetadataObject</b> has been updated by a context other than the one that it has been currently read by. This happens when the specified object

Error Complex Type	Condition
	version is not equal to the current object version of the <b>MetadataObject</b> . For example, this error can be triggered when one context reads the given <b>MetadataObject</b> , after which another context updates the same <b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions is satisfied:</p> <ul style="list-style-type: none"> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which, if active, MUST be made not active before being deleted. An attempt was made to make the <b>Entity</b> not active, but, at the time of the attempt, the <b>Entity</b> was no longer active.</li> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b> and is currently used in a <b>MethodInstance</b> of type <b>ChangedIdEnumerator</b> or <b>DeletedIdEnumerator</b>.</li> <li>▪ The specified <b>MetadataObject</b> is an <b>LobSystem</b> and it contains at least one <b>Entity</b>.</li> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and there exists at least one <b>MethodInstance</b> whose <b>ReturnTypeDescriptor</b> is the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> cannot be deleted because it is either an active <b>Entity</b> or the child of an active <b>Entity</b>.</li> <li>▪ The specified <b>MetadataObject</b> cannot be deleted because it is an <b>LobSystemInstance</b> which does not exist.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

Any **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
<b>Action</b>	Delete all the <b>ActionParameters</b> contained in the specified <b>Action</b> .
<b>Entity</b>	Delete all <b>Actions</b> , <b>Methods</b> , <b>Identifiers</b> and <b>AssociationGroups</b> that are child objects of the specified <b>Entity</b> , as well as all their child objects, in a recursive manner. If the <b>LobSystem</b> that is the parent of this <b>Entity</b> contains no other <b>Entities</b> , also delete the <b>LobSystem</b> , as well as all of <b>LobSystem</b> 's child objects in a recursive manner.

MetadataObject	Action
<b>LobSystem</b>	Delete all <b>LobSystemInstances</b> that are child objects of the specified <b>LobSystem</b> .
<b>Method</b>	Delete all <b>MethodInstances</b> , <b>FilterDescriptors</b> and <b>Parameters</b> that are child objects of the specified <b>Method</b> , as well as all their child objects, in a recursive manner.
Model	Delete all <b>LobSystems</b> and <b>Entities</b> that are referenced by the specified <b>Model</b> , as well as all their child objects, in a recursive manner.
<b>Parameter</b>	Delete the <b>root TypeDescriptor</b> of the specified <b>Parameter</b> , as well as all child objects of the root <b>TypeDescriptor</b> , in a recursive manner.
<b>TypeDescriptor</b>	Delete all the <b>TypeDescriptors</b> that are child objects of the specified <b>TypeDescriptor</b> , as well as all their child objects, in a recursive manner.

### 3.1.4.12.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_Delete_InputMessage</b>	The request WSDL message for the <b>Delete WSDL operation</b> .
<b>BusinessDataCatalogSharedService_Delete_OutputMessage</b>	The response WSDL message for the <b>Delete WSDL operation</b> .

#### 3.1.4.12.1.1 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.

#### 3.1.4.12.1.2 BusinessDataCatalogSharedService\_Delete\_OutputMessage

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

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

### 3.1.4.12.2 Elements

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

Element	Description
<b>Delete</b>	The input data for the <b>Delete WSDL operation</b> .
<b>DeleteResponse</b>	The result data for the <b>Delete WSDL operation</b> .

#### 3.1.4.12.2.1 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** which this operation MUST delete.

#### 3.1.4.12.2.2 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>
```

#### 3.1.4.12.3 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 DeleteAssociationReferenceFromAssociationGroup

This operation is used to remove 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	<p>One of the following conditions is satisfied:</p> <ul style="list-style-type: none"> <li>▪ The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the <b>Entity</b> containing the <b>AssociationGroup</b> containing the specified <b>AssociationReference</b>.</li> <li>▪ The identifier of the specified <b>AssociationReference</b> is 0.</li> <li>▪ The specified <b>AssociationReference</b> does not exist.</li> </ul>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>associationGroupId</b> of the specified <b>AssociationReference</b> is 0.
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>AssociationReference</b> 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 <b>AssociationReference</b> . For example, this error can be triggered when one context reads the given <b>AssociationReference</b> , after which another context updates the same <b>AssociationReference</b> , and then the original context tries to update. <a href="#">&lt;30&gt;</a>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The operation cannot be performed because the <b>Entity</b> which contains the <b>AssociationGroup</b> which contains the specified <b>AssociationReference</b> is active. <a href="#">&lt;31&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The <b>AssociationGroup</b> that is

Error complex type	Condition
	specified by the <b>associationGroupId</b> of the specified <b>AssociationReference</b> does not exist.

### 3.1.4.13.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage</b>	The request WSDL message for the <b>DeleteAssociationReferenceFromAssociationGroup WSDL operation</b> .
<b>BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage</b>	The response WSDL message for the <b>DeleteAssociationReferenceFromAssociationGroup WSDL operation</b> .

#### 3.1.4.13.1.1 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.

#### 3.1.4.13.1.2 BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage

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

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

### 3.1.4.13.2 Elements

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

Element	Description
<b>DeleteAssociationReferenceFromAssociationGroup</b>	The input data for the <b>DeleteAssociationReferenceFromAssociationGroup WSDL operation</b> .
<b>DeleteAssociationReferenceFromAssociationGroupResponse</b>	The result data for the <b>DeleteAssociationReferenceFromAssociationGroup WSDL operation</b> .

### 3.1.4.13.2.1 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**.

**partitionId:** An **empty GUID**.

### 3.1.4.13.2.2 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>
```

### 3.1.4.13.3 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 DeleteDefaultValueForTypeDescriptor

This operation is used to delete 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/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the <b>Method</b> containing the <b>Parameter</b> containing the specified <b>TypeDescriptor</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> for the <b>TypeDescriptor</b> or the <b>MethodInstance</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>TypeDescriptor</b> or the specified <b>MethodInstance</b> 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
<b>BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>DeleteDefaultValueForTypeDescriptor WSDL operation</b> .
<b>BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>DeleteDefaultValueForTypeDescriptor WSDL operation</b> .

### 3.1.4.14.1.1 BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor or\_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.

### 3.1.4.14.1.2 BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor or\_OutputMessage

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

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

### 3.1.4.14.2 Elements

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

Element	Description
<b>DeleteDefaultValueForTypeDescriptor</b>	The input data for the <b>DeleteDefaultValueForTypeDescriptor WSDL operation</b> .
<b>DeleteDefaultValueForTypeDescriptorResponse</b>	The result data for the <b>DeleteDefaultValueForTypeDescriptor WSDL operation</b> .

### 3.1.4.14.2.1 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** for the **TypeDescriptor**.

**methodInstanceId:** The **MetadataObjectId** for the **MethodInstance**.

**partitionId:** An **empty GUID**.

### 3.1.4.14.2 DeleteDefaultValueForTypeDescriptorResponse

The **DeleteDefaultValueForTypeDescriptorResponse** element specifies the result data for the **DeleteDefaultValueForTypeDescriptor WSDL operation**.

```
<xs:element name="DeleteDefaultValueForTypeDescriptorResponse"
  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 DeleteNoCascade

This operation is used to delete the specified **MetadataObject** without deleting the **MetadataObjects** it references.

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

```
<wsdl:operation name="DeleteNoCascade" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_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/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_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/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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.2</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>MetadataObject</b> 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 <b>MetadataObject</b> . For example, this error can be triggered when one context reads the given <b>MetadataObject</b> , after which another context updates the same <b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions is satisfied: <ul style="list-style-type: none"> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which, if active, MUST be made not active before being deleted. An attempt was made to make the <b>Entity</b> not active, but, at the time of the attempt, the <b>Entity</b> was no longer active.</li> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b> and is currently used in</li> </ul>

Error complex type	Condition
	<p>a <b>MethodInstance</b> of type <b>ChangedIdEnumerator</b> or <b>DeletedIdEnumerator</b>.</p> <ul style="list-style-type: none"> <li>The specified <b>MetadataObject</b> is an <b>LobSystem</b> and it contains at least one <b>Entity</b>.</li> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and there exists at least one <b>MethodInstance</b> whose <b>ReturnTypeDescriptor</b> is the specified <b>TypeDescriptor</b>.</li> <li>The specified <b>MetadataObject</b> cannot be deleted because it is either an active <b>Entity</b> or the child of an active <b>Entity</b>.</li> <li>The specified <b>MetadataObject</b> cannot be deleted because it is an <b>LobSystemInstance</b> which does not exist.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

Any **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
<b>Action</b>	Delete all the <b>ActionParameters</b> contained in the specified <b>Action</b> .
<b>Entity</b>	Delete all <b>Actions</b> , <b>Methods</b> , <b>Identifiers</b> , and <b>AssociationGroups</b> that are child objects of the specified <b>Entity</b> , as well as all their child objects, in a recursive manner.
<b>LobSystem</b>	Delete all <b>LobSystemInstances</b> that are child objects of the specified <b>LobSystem</b> .
<b>Method</b>	Delete all <b>MethodInstances</b> , <b>FilterDescriptors</b> and <b>Parameters</b> that are child objects of the specified <b>Method</b> , as well as all their child objects, in a recursive manner.
<b>Parameter</b>	Delete the <b>root TypeDescriptor</b> of the specified <b>Parameter</b> , as well as all child objects of the root <b>TypeDescriptor</b> , in a recursive manner.
<b>TypeDescriptor</b>	Delete all the <b>TypeDescriptors</b> that are child objects of the specified <b>TypeDescriptors</b> , as well as all their child objects, in a recursive manner.

### 3.1.4.15.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage</b>	The request WSDL message for the <b>DeleteNoCascade WSDL operation</b> .
<b>BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage</b>	The response WSDL message for the <b>DeleteNoCascade WSDL operation</b> .

### 3.1.4.15.1.1 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.

### 3.1.4.15.1.2 BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage

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

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

### 3.1.4.15.2 Elements

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

Element	Description
<b>DeleteNoCascade</b>	The input data for the <b>DeleteNoCascade WSDL operation</b> .
<b>DeleteNoCascadeResponse</b>	The result data for the <b>DeleteNoCascade WSDL operation</b> .

### 3.1.4.15.2.1 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** which this operation MUST delete.

### 3.1.4.15.2 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>
```

### 3.1.4.15.3 Complex Types

None.

### 3.1.4.15.4 Simple Types

None.

### 3.1.4.15.5 Attributes

None.

### 3.1.4.15.6 Groups

None.

### 3.1.4.15.7 Attribute Groups

None.

### 3.1.4.16 DeleteProxyAssemblyForLobSystem

This operation is used to delete a **Business Logic Module** [<32>](#) 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/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_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/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_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/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_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/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_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/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the specified LobSystem.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>LobSystem</b> does not exist.

### 3.1.4.16.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage</b>	The request WSDL message for the <b>DeleteProxyAssemblyForLobSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage</b>	The response WSDL message for the <b>DeleteProxyAssemblyForLobSystem WSDL operation</b> .

### 3.1.4.16.1.1 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.

### 3.1.4.16.1.2 BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage

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

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

### 3.1.4.16.2 Elements

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

Element	Description
<b>DeleteProxyAssemblyForLobSystem</b>	The input data for the <b>DeleteProxyAssemblyForLobSystem WSDL operation</b> .
<b>DeleteProxyAssemblyForLobSystemResponse</b>	The result data for the <b>DeleteProxyAssemblyForLobSystem WSDL operation</b> .

### 3.1.4.16.2.1 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>

```

**lobSystemStruct:** The **LobSystem** for which the **Business Logic Module** <33> will be deleted.

### 3.1.4.16.2.2 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>

```

### 3.1.4.16.3 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 EntityCreate

This operation is used to create 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/EntityCreateResponse"

```

```

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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>MetadataCatalog</b> in which the <b>Entity</b> is to be created.
<b>ArgumentException</b> (section 2.2.4.7)	At least one of the following is <b>true</b> : <ul style="list-style-type: none"> <li>▪ The namespace specified for the new <b>Entity</b> is NULL or empty.</li> <li>▪ The length of the namespace specified for the new</li> </ul>

Error complex type	Condition
	<p><b>Entity</b> is greater than 255 characters.</p> <ul style="list-style-type: none"> <li>The name specified for the new <b>Entity</b> is NULL or empty.</li> <li>The length of the name specified for the new <b>Entity</b> is greater than 255 characters.</li> </ul>
<b>ArgumentNullException</b> (section <a href="#">2.2.4.8</a> )	The version specified for a new <b>Entity</b> is NULL.
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	The <b>Entity</b> with the same name, namespace, version, and partition already exists in the specified <b>LobSystem</b> .
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>LobSystem</b> already contains the implementation-specific maximum number of <b>Entities</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Model does not exist.

### 3.1.4.17.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_EntityCreate_InputMessage</b>	The request WSDL message for the <b>EntityCreate WSDL operation</b> .
<b>BusinessDataCatalogSharedService_EntityCreate_OutputMessage</b>	The response WSDL message for the <b>EntityCreate WSDL operation</b> .

#### 3.1.4.17.1.1 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.

#### 3.1.4.17.1.2 BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage

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

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

### 3.1.4.17.2 Elements

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

Element	Description
<b>EntityCreate</b>	The input data for the <b>EntityCreate WSDL operation</b> .
<b>EntityCreateResponse</b>	The result data for the <b>EntityCreate WSDL operation</b> .

### 3.1.4.17.2.1 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.

**lobSystemStruct:** The **LobSystem** in which the **Entity** will be created.

**modelStruct:** The **Model** that references the created **Entity**. If the **Model** is NULL or its **MetadataObjectId** is 0, the protocol server MUST ignore it. Otherwise the **Partition** of this **Model** MUST be an **empty GUID**.

### 3.1.4.17.2.2 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**.

### 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 ExportPackage

This operation is used to retrieve an **XML** representation of the following objects from 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 XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- 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 XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

If the specified **MetadataModel** contains **LobSystems** that the **security principal (2)** 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_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to export<34> the specified <b>Model</b> .
<b>ArgumentException</b> (section 2.2.4.7)	The "InlineProxies" value requires the "Model" value to be also specified for the <b>packageContents</b> element.
<b>ArgumentNullException</b> (section 2.2.4.8)	The specified <b>Model</b> is NULL.
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>Model</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Model</b> or other <b>MetadataObjects</b> to be exported do 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
<b>BusinessDataCatalogSharedService_ExportPackage_InputMessage</b>	The request WSDL message for the <b>ExportPackage WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ExportPackage_OutputMessage</b>	The response WSDL message for the <b>ExportPackage WSDL operation</b> .



### 3.1.4.18.1.1 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.

### 3.1.4.18.1.2 BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage

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

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

### 3.1.4.18.2 Elements

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

Element	Description
<b>ExportPackage</b>	The input data for the <b>ExportPackage WSDL operation</b> .
<b>ExportPackageResponse</b>	The result data for the <b>ExportPackage WSDL operation</b> .

#### 3.1.4.18.2.1 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>
```

**modelStruct:** The **Model**.

**packageContents:** Specifies what 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** and if "Model" value is also specified then 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** and if "Model" value is also specified then 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 if "Model" value is also specified then 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.

### 3.1.4.18.2.2 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 [\[MS-BDCMFFS\]](#) for the **MetadataModel**, containing the specified data.

### 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 GenerateProxyAssemblyForLobSystem

This operation is used to force the protocol server to create an implementation-specific **Business Logic Module** for the specified **LobSystem** to connect to the **line-of-business (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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the specified <b>LobSystem</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>LobSystem</b> is 0.

### 3.1.4.19.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage</b>	The request WSDL message for the <b>GenerateProxyAssemblyForLobSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage</b>	The response WSDL message for the <b>GenerateProxyAssemblyForLobSystem WSDL operation</b> .

#### 3.1.4.19.1.1 BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage

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

The **SOAP action** value is:

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

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

#### 3.1.4.19.1.2 BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage

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

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

### 3.1.4.19.2 Elements

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

Element	Description
<b>GenerateProxyAssemblyForLobSystem</b>	The input data for the <b>GenerateProxyAssemblyForLobSystem WSDL operation</b> .
<b>GenerateProxyAssemblyForLobSystemResponse</b>	The result data for the <b>GenerateProxyAssemblyForLobSystem WSDL operation</b> .

### 3.1.4.19.2.1 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**.

### 3.1.4.19.2.2 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>
```

### 3.1.4.19.3 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 GetAccessControlEntries

This operation is used to retrieve 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 "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/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.20.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage</b>	The request WSDL message for the <b>GetAccessControlEntries WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage</b>	The response WSDL message for the <b>GetAccessControlEntries WSDL operation</b> .

#### 3.1.4.20.1.1 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.

#### 3.1.4.20.1.2 BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage

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

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

### 3.1.4.20.2 Elements

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

Element	Description
<b>GetAccessControlEntries</b>	The input data for the <b>GetAccessControlEntries WSDL operation</b> .
<b>GetAccessControlEntriesResponse</b>	The result data for the <b>GetAccessControlEntries WSDL operation</b> .

#### 3.1.4.20.2.1 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**.

**settingId:** The **Setting** to return the **ACEs** from.

**fallback:** Specifies whether to retrieve ACEs from the default **Setting** when ACEs do not exist in the specified **Setting**.

#### 3.1.4.20.2.2 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**.

### 3.1.4.20.3 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 GetActionById

This operation is used to retrieve 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"
    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/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage"
    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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Action</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.21.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetActionById_InputMessage</b>	The request WSDL message for the <b>GetActionById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetActionById_OutputMessage</b>	The response WSDL message for the <b>GetActionById WSDL operation</b> .

#### 3.1.4.21.1.1 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.

#### 3.1.4.21.1.2 BusinessDataCatalogSharedService\_GetActionById\_OutputMessage

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

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

### 3.1.4.21.2 Elements

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

Element	Description
<b>GetActionById</b>	The input data for the <b>GetActionById WSDL operation</b> .
<b>GetActionByIdResponse</b>	The result data for the <b>GetActionById WSDL operation</b> .

#### 3.1.4.21.2.1 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 if the specified **Action** exists. If the specified **Action** does not exist and value of this element is "false", the protocol server **MUST** set the value of the **GetActionByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

#### 3.1.4.21.2.2 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**.

#### 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 GetActionParameterById

This operation is used to retrieve 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/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExpectionState</b> (section 2.2.4.43)	The specified ActionParameter does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.22.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetActionParameterById_InputMessage</b>	The request WSDL message for the <b>GetActionParameterById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage</b>	The response WSDL message for the <b>GetActionParameterById WSDL operation</b> .

#### 3.1.4.22.1.1 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.

#### 3.1.4.22.1.2 BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage

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

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

### 3.1.4.22.2 Elements

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

Element	Description
<b>GetActionParameterById</b>	The input data for the <b>GetActionParameterById WSDL operation</b> .
<b>GetActionParameterByIdResponse</b>	The result data for the <b>GetActionParameterById WSDL operation</b> .

#### 3.1.4.22.2.1 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>
```

**actionParameterId:** The **MetadataObjectId** of the **ActionParameter**.

**performErrorCheck:** The value of this element MUST be ignored if the specified **ActionParameter** exists. If the specified **ActionParameter** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetActionParameterByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

#### 3.1.4.22.2.2 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**.

### 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 GetActionParametersForAction

This operation is used to retrieve 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"
  </wsdl:fault
</wsdl:operation>
```

```

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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0. <36>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Action</b> does not exist. <37>

### 3.1.4.23.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage</b>	The request WSDL message for the <b>GetActionParametersForAction WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage</b>	The response WSDL message for the <b>GetActionParametersForAction WSDL operation</b> .

#### 3.1.4.23.1.1 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.

#### 3.1.4.23.1.2 BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage



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

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

### 3.1.4.23.2 Elements

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

Element	Description
<b>GetActionParametersForAction</b>	The input data for the <b>GetActionParametersForAction WSDL operation</b> .
<b>GetActionParametersForActionResponse</b>	The result data for the <b>GetActionParametersForAction WSDL operation</b> .

#### 3.1.4.23.2.1 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:** An **empty GUID**.

#### 3.1.4.23.2.2 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**.

### 3.1.4.23.3 Complex Types

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

Complex type	Description
<b>ArrayOfActionParameterStruct</b>	Contains a list of <b>ActionParameters</b> for an <b>Action</b> .

### 3.1.4.23.3.1 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**.

### 3.1.4.23.4 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 GetActionsForEntity

This operation is used to retrieve 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_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/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_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/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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Entity</b> does not exist.<38>

### 3.1.4.24.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage</b>	The request WSDL message for the <b>GetActionsForEntity</b>

Message	Description
	<b>WSDL operation.</b>
<b>BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage</b>	The response WSDL message for the <b>GetActionsForEntity</b> WSDL operation.

### 3.1.4.24.1.1 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.

### 3.1.4.24.1.2 BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage

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

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

### 3.1.4.24.2 Elements

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

Element	Description
<b>GetActionsForEntity</b>	The input data for the <b>GetActionsForEntity</b> <b>WSDL operation</b> .
<b>GetActionsForEntityResponse</b>	The result data for the <b>GetActionsForEntity</b> WSDL operation.

#### 3.1.4.24.2.1 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:** An **empty GUID**.

### 3.1.4.24.2 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>
```

**GetActionsForEntityResult:** The list of **Actions** that are contained by the specified **Entity**.

### 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
<b>ArrayOfActionStruct</b>	Contains a list of <b>Actions</b> .

#### 3.1.4.24.3.1 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**.

#### 3.1.4.24.4 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 GetAllLocalizedNames

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist. <a href="#">&lt;39&gt;</a>

### 3.1.4.25.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage</b>	The request WSDL message for the <b>GetAllLocalizedNames WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage</b>	The response WSDL message for the <b>GetAllLocalizedNames WSDL operation</b> .

#### 3.1.4.25.1.1 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.

#### 3.1.4.25.1.2 BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage

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

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

### 3.1.4.25.2 Elements

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

Element	Description
<b>GetAllLocalizedNames</b>	The input data for the <b>GetAllLocalizedNames WSDL operation</b> .
<b>GetAllLocalizedNamesResponse</b>	The result data for the <b>GetAllLocalizedNames WSDL operation</b> .

### 3.1.4.25.2.1 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:** An **empty GUID**.

**settingId:** The **Setting** to return the **localized names** from.

**merged:** A value which specifies whether the default **Setting** is to be considered in the operation in the case where **settingId** parameter is not NULL. The value MUST in the following table.

Value	Description
True	The protocol server MUST include the localized names from the default <b>Setting</b> and the specified <b>Setting</b> . If a localized name for a given <b>LCID</b> exists for both the default <b>Setting</b> and the specified <b>Setting</b> , only the localized name from the specified <b>Setting</b> MUST be returned.
False	The protocol server MUST return the localized names only for the specified <b>Setting</b> .

### 3.1.4.25.2.2 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**.

### 3.1.4.25.3 Complex Types



None.

### 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 GetAllLocalizedNamesForMetadataObjectStruct

This operation is used to retrieve all the **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/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
      wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse"
      message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
      <wsdl:fault
        wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
        name="ArgumentExceptionFault"
        message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
        <wsdl:fault
          wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
          name="ArgumentNullExceptionFault"
          message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage"
          xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          <wsdl:fault
            wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
            name="ArgumentOutOfRangeExceptionFault"
            message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"
            xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
            <wsdl:fault
              wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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_Met
adataExceptionStateFault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist. <40>

### 3.1.4.26.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage</b>	The request WSDL message for the <b>GetAllLocalizedNamesForMetadataObjectStruct WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage</b>	The response WSDL message for the <b>GetAllLocalizedNamesForMetadataObjectStruct WSDL operation</b> .

#### 3.1.4.26.1.1 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.

### 3.1.4.26.1.2 BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage

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

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

### 3.1.4.26.2 Elements

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

Element	Description
<b>GetAllLocalizedNamesForMetadataObjectStruct</b>	The input data for the <b>GetAllLocalizedNamesForMetadataObjectStruct WSDL operation</b> .
<b>GetAllLocalizedNamesForMetadataObjectStructResponse</b>	The result data for the <b>GetAllLocalizedNamesForMetadataObjectStruct WSDL operation</b> .

#### 3.1.4.26.2.1 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 will return the **localized names**.

**settingId:** The **Setting** from which to return the localized names.

**merged:** A value which specifies whether the default **Setting** is to be considered in the operation in the case where **settingId** parameter is not NULL. The value MUST be in the following table.

Value	Description
True	The protocol server MUST include a localized name from the default <b>Setting</b> in the case where a localized name with the same <b>LCID</b> does not exist for the specified <b>Setting</b> .
False	The protocol server MUST return the localized names only for the specified <b>Setting</b> .

### 3.1.4.26.2.2 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**.

#### 3.1.4.26.3 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 GetAllPartitionIds

This operation is deprecated from the protocol and MUST NOT be called.

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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

### 3.1.4.27.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage</b>	The request WSDL message for the <b>GetAllPartitionIds WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage</b>	The response WSDL message for the <b>GetAllPartitionIds WSDL operation</b> .

#### 3.1.4.27.1.1 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/GetAllPartitionIds
```

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

### 3.1.4.27.1.2 BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage

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

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

### 3.1.4.27.2 Elements

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

Element	Description
<b>GetAllPartitionIds</b>	The input data for the <b>GetAllPartitionIds WSDL operation</b> .
<b>GetAllPartitionIdsResponse</b>	The result data for the <b>GetAllPartitionIds WSDL operation</b> .

#### 3.1.4.27.2.1 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>
```

#### 3.1.4.27.2.2 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:** Deprecated.

### 3.1.4.27.3 Complex Types

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

Complex type	Description
<b>ArrayOfguid</b>	Contains a list of GUID identifiers for partitions (1).

### 3.1.4.27.3.1 ArrayOfguid

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

A complex type that specifies a list of **GUIDs**.

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

**guid:** The identifier of a **partition**.

### 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 GetAllProperties

This operation is used to retrieve all the **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/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_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/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_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/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/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_Fa
ultMessage" 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 one of the conditions in the following table is met.

If any 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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , and the specified <b>MetadataObject</b> is an <b>LOBSystem</b> or <b>LOBSystemInstance</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.28.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAllProperties_InputMessage</b>	The request WSDL message for the <b>GetAllProperties WSDL operation</b> .



Message	Description
<b>BusinessDataCatalogSharedService_GetAllProperties_OutputMessage</b>	The response WSDL message for the <b>GetAllProperties</b> WSDL operation.

### 3.1.4.28.1.1 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.

### 3.1.4.28.1.2 BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage

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

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

### 3.1.4.28.2 Elements

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

Element	Description
<b>GetAllProperties</b>	The input data for the <b>GetAllProperties</b> <b>WSDL operation</b> .
<b>GetAllPropertiesResponse</b>	The result data for the <b>GetAllProperties</b> <b>WSDL operation</b> .

### 3.1.4.28.2.1 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** for the **MetadataObject**.

**partitionId:** An **empty GUID**.

**settingId:** The **Setting** to return the **Properties** from.

**merged:** A flag which MUST be ignored if no **Setting** is specified. If a **Setting** is specified, the value of this element MUST be **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 **false**. If the value is **true**, a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**. In this case, the **Property** from the specified **Setting** MUST be retrieved and the **Property** from the default **Setting** MUST be ignored.

### 3.1.4.28.2.2 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**.

### 3.1.4.28.3 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 GetAllPropertiesForMetadataObjectStruct

This operation is used to retrieve all the 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_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

If any 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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, and

Error complex type	Condition
	the specified <b>MetadataObject</b> is an <b>LobSystem</b> or <b>LobSystemInstance</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> 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
<b>BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage</b>	The request WSDL message for the <b>GetAllPropertiesForMetadataObjectStruct WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage</b>	The response WSDL message for the <b>GetAllPropertiesForMetadataObjectStruct WSDL operation</b> .

#### 3.1.4.29.1.1 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.

#### 3.1.4.29.1.2 BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage

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

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

### 3.1.4.29.2 Elements

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

Element	Description
<b>GetAllPropertiesForMetadataObjectStruct</b>	The input data for the <b>GetAllPropertiesForMetadataObjectStruct WSDL operation</b> .
<b>GetAllPropertiesForMetadataObjectStructResponse</b>	The result data for the <b>GetAllPropertiesForMetadataObjectStruct WSDL operation</b> .

### 3.1.4.29.2.1 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 an **empty GUID**.

**settingId:** The **Setting** to return the **Properties** from.

**merged:** A flag which MUST be ignored if no **Setting** is specified. If a **Setting** is specified, the value of this element MUST be **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 **false**. If the value is **true**, a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**. In this case, the **Property** from the specified **Setting** MUST be retrieved and the **Property** from the default **Setting** MUST be ignored.

### 3.1.4.29.2.2 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**.

### 3.1.4.29.3 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 GetAssociationById

This operation is used to retrieve 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:operation>
```

```

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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An <b>Association</b> with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.30.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationById_InputMessage</b>	The request WSDL message for the <b>GetAssociationById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationById_OutputMessage</b>	The response WSDL message for the <b>GetAssociationById WSDL operation</b> .

#### 3.1.4.30.1.1 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.

### 3.1.4.30.1.2 BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage

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

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

### 3.1.4.30.2 Elements

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

Element	Description
<b>GetAssociationById</b>	The input data for the <b>GetAssociationById WSDL operation</b> .
<b>GetAssociationByIdResponse</b>	The result data for the <b>GetAssociationById WSDL operation</b> .

#### 3.1.4.30.2.1 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 of this element MUST be ignored 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 **false**, the protocol server MUST set the value of the **GetAssociationByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

#### 3.1.4.30.2.2 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**.



### 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 GetAssociationGroupById

This operation is used to retrieve 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"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupByIdInvalidOperationExceptionFault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_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/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateF
ault_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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An AssociationGroup with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.31.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage</b>	The request WSDL message for the <b>GetAssociationGroupById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage</b>	The response WSDL message for the <b>GetAssociationGroupById WSDL operation</b> .

#### 3.1.4.31.1.1 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.

### 3.1.4.31.1.2 BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage

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

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

### 3.1.4.31.2 Elements

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

Element	Description
<b>GetAssociationGroupById</b>	The input data for the <b>GetAssociationGroupById WSDL operation</b> .
<b>GetAssociationGroupByIdResponse</b>	The result data for the <b>GetAssociationGroupById WSDL operation</b> .

#### 3.1.4.31.2.1 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** for the **AssociationGroup**.

**performErrorCheck:** The value of this element MUST be ignored if an **AssociationGroup** with the specified **MetadataObjectId** exists. If and **AssociationGroup** with the specified **MetadataObjectId** does not exist and the value of this element is **false**, the protocol server MUST set the value of the **GetAssociationGroupByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

#### 3.1.4.31.2.2 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**.

### 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 GetAssociationGroupsForEntity

This operation is used to retrieve 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0. <41>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An Entity with the specified <b>MetadataObjectId</b> does not exist. <42>

### 3.1.4.32.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage</b>	The request WSDL message for the <b>GetAssociationGroupsForEntity WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage</b>	The response WSDL message for the <b>GetAssociationGroupsForEntity WSDL operation</b> .

Message	Description
	entity WSDL operation.

### 3.1.4.32.1.1 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.

### 3.1.4.32.1.2 BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage

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

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

### 3.1.4.32.2 Elements

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

Element	Description
<b>GetAssociationGroupsForEntity</b>	The input data for the <b>GetAssociationGroupsForEntity WSDL operation</b> .
<b>GetAssociationGroupsForEntityResponse</b>	The result data for the <b>GetAssociationGroupsForEntity WSDL operation</b> .

#### 3.1.4.32.2.1 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** for the **Entity**.

**partitionId:** The **empty GUID**.

### 3.1.4.32.2 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**.

### 3.1.4.32.3 Complex Types

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

Complex type	Description
<b>ArrayOfAssociationGroupStruct</b>	Contains a list of <b>AssociationGroups</b> .

#### 3.1.4.32.3.1 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**.

#### 3.1.4.32.4 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 GetAssociationMembersInRole

This operation is used to retrieve 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 one of the conditions in the following table is met.



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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is set to zero, or the value of the <b>role</b> parameter is not zero or 1.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Association</b> does not exist, or does not refer to any <b>Entities</b> .

### 3.1.4.33.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage</b>	The request WSDL message for the <b>GetAssociationMembersInRole WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage</b>	The response WSDL message for the <b>GetAssociationMembersInRole WSDL operation</b> .

#### 3.1.4.33.1.1 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.

#### 3.1.4.33.1.2 BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage

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

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

### 3.1.4.33.2 Elements

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

Element	Description
<b>GetAssociationMembersInRole</b>	The input data for the <b>GetAssociationMembersInRole WSDL operation</b> .
<b>GetAssociationMembersInRoleResponse</b>	The result data for the <b>GetAssociationMembersInRole WSDL operation</b> .

### 3.1.4.33.2.1 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** for the **Association**.

**role:** An **unsignedByte** value that specifies whether to return source or destination **Entities** from the Association. The following table describes possible values.

Value	Description
0	Only source <b>Entities</b> are returned.
1	Only destination <b>Entities</b> are returned.

**partitionId:** An **empty GUID**.

### 3.1.4.33.2.2 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**.

### 3.1.4.33.3 Complex Types

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

Complex type	Description
<b>ArrayOfAssociationMemberStruct</b>	Contains a list of relationships between <b>Entities</b> and <b>Associations</b> .
<b>AssociationMemberStruct</b>	Contains information about a specific relationship of an Entity and Association.

#### 3.1.4.33.3.1 ArrayOfAssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationships 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.

#### 3.1.4.33.3.2 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, the value **MUST** have at least 1, 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, at most 255 Unicode characters.

**associationId:** The **MetadataObjectId** of the **Association** referencing the **Entity**. The value of this element MUST be in [1, 0x7fffffff] range.

**entityId:** The **MetadataObjectId** of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be in [1, 0x7fffffff] range. Otherwise, the value MUST be 0.

**partitionId:** An **empty GUID**.

**role:** Specifies whether the **Entity** is a source or the destination of the **Association**. The value of this element MUST be present in the following table.

Value	Description
0	The <b>Entity</b> is a source of the <b>Association</b> .
1	The <b>Entity</b> is the destination of the <b>Association</b> .

### 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 GetAssociationReferencesForAssociationGroup

This operation is used to retrieve 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified AssociationGroup does not exist. <a href="#">&lt;43&gt;</a>

### 3.1.4.34.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage</b>	The request WSDL message for the <b>GetAssociationReferencesForAssociationGroup WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage</b>	The response WSDL message for the <b>GetAssociationReferencesForAssociationGroup WSDL operation</b> .

### 3.1.4.34.1.1 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.

### 3.1.4.34.1.2 BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage

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

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

### 3.1.4.34.2 Elements

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

Element	Description
<b>GetAssociationReferencesForAssociationGroup</b>	The input data for the <b>GetAssociationReferencesForAssociationGroup WSDL operation</b> .
<b>GetAssociationReferencesForAssociationGroupResponse</b>	The result data for the <b>GetAssociationReferencesForAssociationGroup WSDL operation</b> .

### 3.1.4.34.2.1 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** for the **AssociationGroup**.

**partitionId:** An **empty GUID**.

### 3.1.4.34.2 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 an **empty GUID**.

### 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
<b>ArrayOfAssociationReferenceStruct</b>	Contains a list of <b>AssociationReferences</b> .

#### 3.1.4.34.3.1 ArrayOfAssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type 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>

```





```

message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_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/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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>DataClass</b> does not exist. <44>

### 3.1.4.35.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationsForDataClass_Input Message</b>	The request WSDL message for the <b>GetAssociationsForDataClass WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationsForDataClass_Output Message</b>	The response WSDL message for the <b>GetAssociationsForDataClass WSDL operation</b> .

#### 3.1.4.35.1.1 BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_Input Message

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.

### 3.1.4.35.1.2 BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage

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

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

### 3.1.4.35.2 Elements

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

Element	Description
<b>GetAssociationsForDataClass</b>	The input data for the <b>GetAssociationsForDataClass WSDL operation</b> .
<b>GetAssociationsForDataClassResponse</b>	The result data for the <b>GetAssociationsForDataClass WSDL operation</b> .

#### 3.1.4.35.2.1 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 [1, 0x7fffffff] range.

**partitionId:** An **empty GUID**.

#### 3.1.4.35.2.2 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**.

### 3.1.4.35.3 Complex Types

None.

### 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 GetAssociationsForEntityAndRole

This operation is used to retrieve the **Associations** that references 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/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is set to zero, or the <b>role</b> parameter is not set to zero or 1.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified Entity does not exist. <45>

### 3.1.4.36.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage</b>	The request WSDL message for the <b>GetAssociationsForEntityAndRole WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage</b>	The response WSDL message for the <b>GetAssociationsForEntityAndRole WSDL operation</b> .

### 3.1.4.36.1.1 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.

### 3.1.4.36.1.2 BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage

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

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

### 3.1.4.36.2 Elements

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

Element	Description
<b>GetAssociationsForEntityAndRole</b>	The input data for the <b>GetAssociationsForEntityAndRole WSDL operation</b> .
<b>GetAssociationsForEntityAndRoleResponse</b>	The result data for the <b>GetAssociationsForEntityAndRole WSDL operation</b> .

#### 3.1.4.36.2.1 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: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 value of this element MUST be in the following table.

Value	Description
0	The <b>Entity</b> is a source of the <b>Association</b> .
1	The <b>Entity</b> is the destination of the <b>Association</b> .

**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 value of this parameter MUST be in the following table.

Value	Description
True	Return <b>Associations</b> that match the search criteria only if they do not reference an <b>Entity</b> that is not active.
False	Return all <b>Associations</b> that match the search criteria.

**partitionId:** An **empty GUID**.

### 3.1.4.36.2 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**.

#### 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 GetAssociationsForMethod

This operation is used to retrieve 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_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/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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified Method does not exist.<46>

### 3.1.4.37.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage</b>	The request WSDL message for the <b>GetAssociationsForMethod WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage</b>	The response WSDL message for the <b>GetAssociationsForMethod WSDL operation</b> .

#### 3.1.4.37.1.1 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/GetAssociationsForMethod
```

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

#### 3.1.4.37.1.2 BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage

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

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

### 3.1.4.37.2 Elements

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



Element	Description
<b>GetAssociationsForMethod</b>	The input data for the <b>GetAssociationsForMethod WSDL operation</b> .
<b>GetAssociationsForMethodResponse</b>	The result data for the <b>GetAssociationsForMethod WSDL operation</b> .

### 3.1.4.37.2.1 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 [1, 0x7fffffff] range.

**partitionId:** The **empty GUID**.

### 3.1.4.37.2.2 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**.

### 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 GetCacheInvalidationRecordsSince

This operation is deprecated from the protocol and MUST NOT [<47>](#) be called.

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedEx
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/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_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/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_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/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_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

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>

```

### 3.1.4.38.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage</b>	The request WSDL message for the <b>GetCacheInvalidationRecordsSince WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage</b>	The response WSDL message for the <b>GetCacheInvalidationRecordsSince WSDL operation</b> .

#### 3.1.4.38.1.1 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/Get
CacheInvalidationRecordsSince

```

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

#### 3.1.4.38.1.2 BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage

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

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

### 3.1.4.38.2 Elements

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

Element	Description
<b>GetCacheInvalidationRecordsSince</b>	The input data for the <b>GetCacheInvalidationRecordsSince WSDL operation</b> .

Element	Description
<b>GetCacheInvalidationRecordsSinceResponse</b>	The result data for the <b>GetCacheInvalidationRecordsSince</b> WSDL operation.

### 3.1.4.38.2.1 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:** Deprecated.

### 3.1.4.38.2.2 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:** Deprecated.

### 3.1.4.38.3 Complex Types

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

Complex type	Description
<b>ArrayOfCacheInvalidationRecordStruct</b>	Contains a cache version stamps.
<b>CacheInvalidationRecordStruct</b>	Contains information about the version stamps for the cache.

#### 3.1.4.38.3.1 ArrayOfCacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

```

<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:** Deprecated.

### 3.1.4.38.3.2 CacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

```

<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:** Deprecated.

**counter:** Deprecated.

**partitionId:** Deprecated.

**timestamp:** Deprecated.

### 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 GetChildTypeDescriptorsForTypeDescriptor

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Output
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExc
eptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Invali
dOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Metada
taExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is

Error complex type	Condition
	0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified TypeDescriptor does not exist. <48>

### 3.1.4.39.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetChildTypeDescriptorsForTypeDescriptor WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetChildTypeDescriptorsForTypeDescriptor WSDL operation</b> .

#### 3.1.4.39.1.1 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.

#### 3.1.4.39.1.2 BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage

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

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

### 3.1.4.39.2 Elements

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

Element	Description
<b>GetChildTypeDescriptorsForTypeDescriptor</b>	The input data for the

Element	Description
	<b>GetChildTypeDescriptorsForTypeDescriptor</b> <b>WSDL operation.</b>
<b>GetChildTypeDescriptorsForTypeDescriptorResponse</b>	The result data for the <b>GetChildTypeDescriptorsForTypeDescriptor</b> WSDL operation.

### 3.1.4.39.2.1 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** for the **TypeDescriptor.**

**partitionId:** An **empty GUID.**

### 3.1.4.39.2.2 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.**

#### 3.1.4.39.3 Complex Types

None.

#### 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 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

This operation is used to retrieve the **TypeDescriptors** that reference **Identifiers** and are descendent **TypeDescriptors** of the specified **TypeDescriptor**. A given **TypeDescriptor** is a descendent of the specified **TypeDescriptor** if the **TypeDescriptor** that contains the given **TypeDescriptor** is also a descendent of the specified **TypeDescriptor**, or the **TypeDescriptor** is contained by the specified **TypeDescriptor** itself. [<49>](#)

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/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor InvalidOperationExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>TypeDescriptor</b> is 0. <a href="#">&lt;50&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>TypeDescriptor</b> does not exist. <a href="#">&lt;51&gt;</a>

### 3.1.4.40.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor WSDL operation</b> .

#### 3.1.4.40.1.1 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.

### 3.1.4.40.1.2 BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage

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

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

### 3.1.4.40.2 Elements

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

Element	Description
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b>	The input data for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> <b>WSDL operation</b> .
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse</b>	The result data for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> <b>WSDL operation</b> .

#### 3.1.4.40.2.1 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**.

#### 3.1.4.40.2.2 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**.

#### 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 GetDataClassById

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_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/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 FaultMessage" 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
ssage" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A DataClass with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.41.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetDataClassById_InputMessage</b>	The request WSDL message for the <b>GetDataClassById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetDataClassById_OutputMessage</b>	The response WSDL message

Message	Description
	for the <b>GetDataClassById</b> WSDL operation.

### 3.1.4.41.1.1 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/GetDataClassById
```

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

### 3.1.4.41.1.2 BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage

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

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

### 3.1.4.41.2 Elements

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

Element	Description
<b>GetDataClassById</b>	The input data for the <b>GetDataClassById</b> <b>WSDL operation</b> .
<b>GetDataClassByIdResponse</b>	The result data for the <b>GetDataClassById</b> <b>WSDL operation</b> .

#### 3.1.4.41.2.1 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 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 **false**, the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

**partitionId**: The **empty GUID**.

### 3.1.4.41.2 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**.

### 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 GetDataClassesForSystem

This operation is used to retrieve **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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_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/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_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/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_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/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 **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist. <a href="#">&lt;52&gt;</a>

### 3.1.4.42.1 Messages

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



Message	Description
<b>BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage</b>	The request WSDL message for the <b>GetDataClassesForSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage</b>	The response WSDL message for the <b>GetDataClassesForSystem WSDL operation</b> .

### 3.1.4.42.1.1 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.

### 3.1.4.42.1.2 BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage

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

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

### 3.1.4.42.2 Elements

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

Element	Description
<b>GetDataClassesForSystem</b>	The input data for the <b>GetDataClassesForSystem WSDL operation</b> .
<b>GetDataClassesForSystemResponse</b>	The result data for the <b>GetDataClassesForSystem WSDL operation</b> .

#### 3.1.4.42.2.1 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>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**lobSystemId:** The **MetadataObjectId** of the **LobSystem**.

**activeOnly:** Which **DataClasses** to return. If the value is **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 **empty GUID**.

### 3.1.4.42.2 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**.

### 3.1.4.42.3 Complex Types

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

Complex type	Description
<b>ArrayOfDataClassStruct</b>	Contains a list of <b>DataClasses</b> .

#### 3.1.4.42.3.1 ArrayOfDataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list **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.

#### 3.1.4.42.4 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 GetDefaultValuesForTypeDescriptor

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  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/wsd1"/>
</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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A TypeDescriptor with specified <b>MetadataObjectId</b> does not exist.

### 3.1.4.43.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetDefaultValuesForTypeDescriptor WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetDefaultValuesForTypeDescriptor WSDL operation</b> .

#### 3.1.4.43.1.1 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/Get
DefaultValuesForTypeDescriptor

```

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

### 3.1.4.43.1.2 BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage

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

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

#### 3.1.4.43.2 Elements

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

Element	Description
<b>GetDefaultValuesForTypeDescriptor</b>	The input data for the <b>GetDefaultValuesForTypeDescriptor WSDL operation</b> .
<b>GetDefaultValuesForTypeDescriptorResponse</b>	The result data for the <b>GetDefaultValuesForTypeDescriptor WSDL operation</b> .

#### 3.1.4.43.2.1 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** for the **TypeDescriptor**.

**partitionId:** An **empty GUID**.

#### 3.1.4.43.2.2 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**.

### 3.1.4.43.3 Complex Types

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

Complex type	Description
<b>ArrayOfDefaultValueStruct</b>	Contains a list of <b>DefaultValues</b> .

#### 3.1.4.43.3.1 ArrayOfDefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

A complex type that specifies a list of **DefaultValues**.

```
<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**.

#### 3.1.4.43.4 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 GetEntitiesForAssociationAndRole

This operation is used to retrieve the **Entities** performing 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified <b>MetadataObjectId</b> is 0.</li> <li>The <b>role</b> parameter is not set to zero or 1. <a href="#">&lt;53&gt;</a></li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Association does not

Error complex type	Condition
	exist.<54>

### 3.1.4.44.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage</b>	The request WSDL message for the <b>GetEntitiesForAssociationAndRole WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesForAssociationAndRole WSDL operation</b> .

#### 3.1.4.44.1.1 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.

#### 3.1.4.44.1.2 BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage

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

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

### 3.1.4.44.2 Elements

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

Element	Description
<b>GetEntitiesForAssociationAndRole</b>	The input data for the <b>GetEntitiesForAssociationAndRole WSDL operation</b> .
<b>GetEntitiesForAssociationAndRoleResponse</b>	The result data for the <b>GetEntitiesForAssociationAndRole WSDL operation</b> .



### 3.1.4.44.2.1 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: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 what **Entities** to be returned. Its value MUST be in the following table.

Value	Description
0	The <b>Entities</b> are sources of the <b>Association</b> .
1	The <b>Entities</b> are destinations of the <b>Association</b> .

**activeOnly:** This element MUST contain the information about what **Entities** to be returned. If its value is **true**, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An **empty GUID**.

### 3.1.4.44.2.2 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**.

### 3.1.4.44.3 Complex Types

None.

### 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 GetEntitiesForSystem

This operation is used to retrieve **Entities** of the specified **LabSystem**.

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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExpectionState</b> (section 2.2.4.43)	The specified LobSystem does not exist. <55>

### 3.1.4.45.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage</b>	The request WSDL message for the <b>GetEntitiesForSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesForSystem WSDL operation</b> .

#### 3.1.4.45.1.1 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.

#### 3.1.4.45.1.2 BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage

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

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

### 3.1.4.45.2 Elements

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

Element	Description
<b>GetEntitiesForSystem</b>	The input data for the <b>GetEntitiesForSystem WSDL operation</b> .
<b>GetEntitiesForSystemResponse</b>	The result data for the <b>GetEntitiesForSystem WSDL operation</b> .

#### 3.1.4.45.2.1 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 the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An **empty GUID**.

#### 3.1.4.45.2.2 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**.

### 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 GetEntitiesLikeNameAndNamespace

This operation is used to retrieve 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**, or the **localized name** of the **Entity** with **LCID** 0, 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionStateFault 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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The length of the <b>wildcardedName</b> exceeds 255 characters.</li> <li>▪ The length of the <b>wildcardedNamespace</b> exceeds 255 characters.</li> <li>▪ The specified <b>wildcardedName</b> is invalid.</li> <li>▪ The specified <b>wildcardedNamespace</b> is invalid.</li> </ul>

### 3.1.4.46.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage</b>	The request WSDL message for the <b>GetEntitiesLikeNameAndNamespace WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesLikeNameAndNa</b>

Message	Description
	<b>mespace</b> WSDL operation.

### 3.1.4.46.1.1 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/GetEntitiesLikeNameAndNamespace
```

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

### 3.1.4.46.1.2 BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage

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

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

## 3.1.4.46.2 Elements

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

Element	Description
<b>GetEntitiesLikeNameAndNamespace</b>	The input data for the <b>GetEntitiesLikeNameAndNamespace WSDL operation</b> .
<b>GetEntitiesLikeNameAndNamespaceResponse</b>	The result data for the <b>GetEntitiesLikeNameAndNamespace WSDL operation</b> .

### 3.1.4.46.2.1 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.

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.

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 **LCID** representing the locale to be used when retrieving the **LabSystems**.

**activeOnly:** This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An **empty GUID**.

### 3.1.4.46.2.2 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**.

### 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 GetEntitiesReferencedByModelId

This operation is used to retrieve **Entities** which 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_ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified Model does not exist. <56>

### 3.1.4.47.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage</b>	The request WSDL message for the <b>GetEntitiesReferencedByModelId WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesReferencedByModelId WSDL operation</b> .

Message	Description
	odelId WSDL operation.

### 3.1.4.47.1.1 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/GetEntitiesReferencedByModelId
```

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

### 3.1.4.47.1.2 BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage

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

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

### 3.1.4.47.2 Elements

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

Element	Description
<b>GetEntitiesReferencedByModelId</b>	The input data for the <b>GetEntitiesReferencedByModelId WSDL operation</b> .
<b>GetEntitiesReferencedByModelIdResponse</b>	The result data for the <b>GetEntitiesReferencedByModelId WSDL operation</b> .

#### 3.1.4.47.2.1 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:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants" minOccurs="0" name="mode"
type="tns3: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 which **Entities** to be returned. The value of this element is specified in section 3.1.4.47.4.1.

**activeOnly:** This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An **empty GUID**.

### 3.1.4.47.2.2 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**.

### 3.1.4.47.3 Complex Types

None.

### 3.1.4.47.4 Simple Types

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

Simple type	Description
<b>EntityConstants.EntitiesInModelQuery</b>	Contains a list of <b>Entities</b> to be returned.

#### 3.1.4.47.4.1 EntityConstants.EntitiesInModelQuery

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants>

Specifies which **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:restriction>
</xs:simpleType>
```

```

    <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 <b>Entities</b> referenced by the specified <b>Model</b> .
OwnedEntitiesInModel	Returned <b>Entities</b> MUST be referenced only in the specified <b>Model</b> .
SharedEntitiesInModel	Returned <b>Entities</b> MUST be referenced in the specified <b>Model</b> and in other <b>Models</b> .

### 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 GetEntityById

This operation is used to retrieve 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An Entity with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.48.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityById_InputMessage</b>	The request WSDL message for the <b>GetEntityById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntityById_OutputMessage</b>	The response WSDL message for the <b>GetEntityById WSDL operation</b> .

#### 3.1.4.48.1.1 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.

### 3.1.4.48.1.2 BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage

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

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

### 3.1.4.48.2 Elements

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

Element	Description
<b>GetEntityById</b>	The input data for the <b>GetEntityById WSDL operation</b> .
<b>GetEntityByIdResponse</b>	The result data for the <b>GetEntityById WSDL operation</b> .

#### 3.1.4.48.2.1 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 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 false, the protocol server MUST set the value of the **GetEntityByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

#### 3.1.4.48.2.2 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>
```

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

**GetEntityByIdResult:** The **Entity**.

### 3.1.4.48.3 Complex Types

None.

### 3.1.4.48.4 Simple Types

None.

### 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 GetEntityCount

This operation retrieves the number of **Entity** elements 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/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_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/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_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/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Faul
tMessage" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is set to zero. <a href="#">&lt;57&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist. <a href="#">&lt;58&gt;</a>

### 3.1.4.49.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityCount_InputMessage</b>	The request WSDL message for the <b>GetEntityCount WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntityCount_OutputMessage</b>	The response WSDL message for the <b>GetEntityCount WSDL operation</b> .

#### 3.1.4.49.1.1 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.

### 3.1.4.49.1.2 BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage

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

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

### 3.1.4.49.2 Elements

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

Element	Description
<b>GetEntityCount</b>	The input data for the <b>GetEntityCount WSDL operation</b> .
<b>GetEntityCountResponse</b>	The result data for the <b>GetEntityCount WSDL operation</b> .

#### 3.1.4.49.2.1 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:** An **empty GUID**.

#### 3.1.4.49.2.2 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 **Entity** elements contained by the specified **LobSystem**.

### 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 GetEntityNameAndNamespacesForAssociationAndRole

This operation is used to retrieve the names and namespaces of **Entities** which 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:operation>
```

```

    <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 one of the conditions in the following table is met.

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 at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Association does not exist. <a href="#">&lt;59&gt;</a>

### 3.1.4.50.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage</b>	The request WSDL message for the <b>GetEntityNameAndNamespacesForAssociationAndRole WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage</b>	The response WSDL message for the <b>GetEntityNameAndNamespacesForAssociationAndRole WSDL operation</b> .

### 3.1.4.50.1.1 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.

### 3.1.4.50.1.2 BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage

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

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

### 3.1.4.50.2 Elements

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

Element	Description
<b>GetEntityNameAndNamespacesForAssociationAndRole</b>	The input data for the <b>GetEntityNameAndNamespacesForAssociationAndRole WSDL operation</b> .
<b>GetEntityNameAndNamespacesForAssociationAndRoleResponse</b>	The result data for the <b>GetEntityNameAndNamespacesForAssociationAndRole WSDL operation</b> .

#### 3.1.4.50.2.1 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:** An **unsignedByte** value that specifies whether to return information for the **Entities** that are referenced as **Association** source or **Association** destination by the specified **Association**. The value of this parameter MUST be listed in the following table.

Possible parameter values:

Value	Description
0	Return information for <b>Entities</b> that are referenced as <b>Association</b> source by the specified <b>Association</b> .
1	Return information for <b>Entities</b> that are referenced as <b>Association</b> destination by the specified <b>Association</b> .

**partitionId:** An **empty GUID**.

### 3.1.4.50.2.2 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 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 nth name and the nth namespace together describe the name and namespace of a single **Entity**.

### 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 GetEntityWithNameAndNamespace

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified namespace length exceeds 255 characters.</li> <li>The specified name length exceeds 255 characters.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An active Entity with the specified namespace and name does not exist in the specified Partition.

### 3.1.4.51.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage</b>	The request WSDL message for the <b>GetEntityWithNameAndNamespace WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage</b>	The response WSDL message for the <b>GetEntityWithNameAndNamespace WSDL operation</b> .

#### 3.1.4.51.1.1 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.

#### 3.1.4.51.1.2 BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage

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

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



### 3.1.4.51.2 Elements

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

Element	Description
<b>GetEntityWithNameAndNamespace</b>	The input data for the <b>GetEntityWithNameAndNamespace WSDL operation</b> .
<b>GetEntityWithNameAndNamespaceResponse</b>	The result data for the <b>GetEntityWithNameAndNamespace WSDL operation</b> .

#### 3.1.4.51.2.1 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:** An **empty GUID**.

#### 3.1.4.51.2.2 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**.

### 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 GetEntityWithNameAndNamespaceAndVersion

This operation is used to retrieve 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/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_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/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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified namespace length exceeds 255 characters.</li> <li>The specified name length exceeds 255 characters.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An <b>Entity</b> with the specified namespace and name and version does not exist in the specified <b>Partition</b> .

### 3.1.4.52.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage</b>	The request WSDL message for the <b>GetEntityWithNameAndNamespaceAndVersion WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage</b>	The response WSDL message for the <b>GetEntityWithNameAndNamespaceAndVersion WSDL operation</b> .

#### 3.1.4.52.1.1 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.

### 3.1.4.52.1.2 BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage

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

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

#### 3.1.4.52.2 Elements

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

Element	Description
<b>GetEntityWithNameAndNamespaceAndVersion</b>	The input data for the <b>GetEntityWithNameAndNamespaceAndVersion WSDL operation</b> .
<b>GetEntityWithNameAndNamespaceAndVersionResponse</b>	The result data for the <b>GetEntityWithNameAndNamespaceAndVersion WSDL operation</b> .

#### 3.1.4.52.2.1 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:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2: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:** An **empty GUID**.

### 3.1.4.52.2 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**.

### 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 GetFieldTypeDescriptorsByMethodInstance

This operation is used to retrieve **TypeDescriptors** that correspond to **fields** for the **MethodInstance** with the specified name on 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_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/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_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/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_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/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_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/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
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 one of the conditions in the following table is met.

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
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>The <b>MethodInstanceType</b> of the MethodInstance with the specified name on the specified Entity is not equal to any one of the following:</p> <ul style="list-style-type: none"> <li>▪ Finder</li> <li>▪ SpecificFinder</li> <li>▪ IdEnumerator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ Creator</li> <li>▪ Updater</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A <b>MethodInstance</b> with the specified name does not exist on the specified <b>Entity</b> .

### 3.1.4.53.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage</b>	The request WSDL message for the <b>GetFieldTypeDescriptorsByMethodInstance</b> <b>WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage</b>	The response WSDL message for the <b>GetFieldTypeDescriptorsByMethodInstance</b> WSDL operation.

#### 3.1.4.53.1.1 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.

#### 3.1.4.53.1.2 BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage

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

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

### 3.1.4.53.2 Elements

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

Element	Description
<b>GetFieldTypeDescriptorsByMethodInstance</b>	The input data for the <b>GetFieldTypeDescriptorsByMethodInstance WSDL operation</b> .
<b>GetFieldTypeDescriptorsByMethodInstanceResponse</b>	The result data for the <b>GetFieldTypeDescriptorsByMethodInstance WSDL operation</b> .

### 3.1.4.53.2.1 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**.

### 3.1.4.53.2.2 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:ArrayOfPropertyDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFieldTypeDescriptorsByMethodInstanceResult:** The list of **TypeDescriptors**.

### 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 GetFilterDescriptorById

This operation is used to retrieve 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A FilterDescriptor with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.54.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage</b>	The request WSDL message for the <b>GetFilterDescriptorById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage</b>	The response WSDL message for the <b>GetFilterDescriptorById WSDL operation</b> .

#### 3.1.4.54.1.1 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.

#### 3.1.4.54.1.2 BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage

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

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

### 3.1.4.54.2 Elements

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

Element	Description
<b>GetFilterDescriptorById</b>	The input data for the <b>GetFilterDescriptorById WSDL operation</b> .
<b>GetFilterDescriptorByIdResponse</b>	The result data for the <b>GetFilterDescriptorById WSDL operation</b> .

#### 3.1.4.54.2.1 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 if a **FilterDescriptor** with the specified **MetadataObjectId** exists. If a **FilterDescriptor** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server **MUST** set the value of the **GetFilterDescriptorByIdResult** element to **NULL**.

**partitionId:** An **empty GUID**.

#### 3.1.4.54.2.2 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.

### 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 GetFilterDescriptorsForMethod

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_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/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_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/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_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/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_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/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationE
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/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataException
StateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the Method is 0. <60>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A <b>Method</b> with the specified <b>MetadataObjectId</b> does not exist. <61>

### 3.1.4.55.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage</b>	The request WSDL message for the <b>GetFilterDescriptorsForMethod WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage</b>	The response WSDL message for the <b>GetFilterDescriptorsForMethod WSDL operation</b> .

#### 3.1.4.55.1.1 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.

### 3.1.4.55.1.2 BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage

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

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

### 3.1.4.55.2 Elements

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

Element	Description
<b>GetFilterDescriptorsForMethod</b>	The input data for the <b>GetFilterDescriptorsForMethod WSDL operation</b> .
<b>GetFilterDescriptorsForMethodResponse</b>	The result data for the <b>GetFilterDescriptorsForMethod WSDL operation</b> .

#### 3.1.4.55.2.1 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:** An **empty GUID**.

#### 3.1.4.55.2.2 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>
```

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

**GetFilterDescriptorsForMethodResult:** The list of **FilterDescriptors**.

### 3.1.4.55.3 Complex Types

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

Complex type	Description
<b>ArrayOfFilterDescriptorStruct</b>	Contains a list of <b>FilterDescriptors</b> .

#### 3.1.4.55.3.1 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**.

#### 3.1.4.55.4 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 GetIdentifierById

This operation is used to retrieve 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An Identifier with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .



### 3.1.4.56.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetIdentifierById_InputMessage</b>	The request WSDL message for the <b>GetIdentifierById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage</b>	The response WSDL message for the <b>GetIdentifierById WSDL operation</b> .

#### 3.1.4.56.1.1 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.

#### 3.1.4.56.1.2 BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage

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

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

### 3.1.4.56.2 Elements

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

Element	Description
<b>GetIdentifierById</b>	The input data for the <b>GetIdentifierById WSDL operation</b> .
<b>GetIdentifierByIdResponse</b>	The result data for the <b>GetIdentifierById WSDL operation</b> .

#### 3.1.4.56.2.1 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: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>

```

**identifierId:** The **MetadataObjectId** of the **Identifier**.

**performErrorCheck:** The value of this element MUST be ignored if an **Identifier** with the specified **MetadataObjectId** exists. If an **Identifier** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetIdentifierByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

### 3.1.4.56.2.2 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.

### 3.1.4.56.3 Complex Types

None.

### 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 GetIdentifiersForEntity

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/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_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/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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the Entity is 0. <a href="#">&lt;62&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An <b>Entity</b> with the specified <b>MetadataObjectId</b> does not exist. <a href="#">&lt;63&gt;</a>

### 3.1.4.57.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage</b>	The request WSDL message for the <b>GetIdentifiersForEntity WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage</b>	The response WSDL message for the <b>GetIdentifiersForEntity WSDL operation</b> .

#### 3.1.4.57.1.1 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.

#### 3.1.4.57.1.2 BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage

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

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

### 3.1.4.57.2 Elements

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

Element	Description
<b>GetIdentifiersForEntity</b>	The input data for the <b>GetIdentifiersForEntity WSDL operation</b> .
<b>GetIdentifiersForEntityResponse</b>	The result data for the <b>GetIdentifiersForEntity WSDL operation</b> .

#### 3.1.4.57.2.1 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>

```

**entityId:** The **MetadataObjectId** of the **Entity** for which the **Identifiers** are obtained.

**partitionId:** An **empty GUID**.

### 3.1.4.57.2.2 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**.

### 3.1.4.57.3 Complex Types

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

Complex type	Description
<b>ArrayOfIdentifierStruct</b>	Contains a list of <b>Identifiers</b> .

#### 3.1.4.57.3.1 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**.

### 3.1.4.57.4 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 GetImportProgress

This operation is used to retrieve 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.

#### 3.1.4.58.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetImportProgress_InputMessage</b>	The request WSDL message for the <b>GetImportProgress WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetImportProgress_OutputMessage</b>	The response WSDL message for the <b>GetImportProgress WSDL operation</b> .

#### 3.1.4.58.1.1 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.

### 3.1.4.58.1.2 BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage

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

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

#### 3.1.4.58.2 Elements

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

Element	Description
<b>GetImportProgress</b>	The input data for the <b>GetImportProgress WSDL operation</b> .
<b>GetImportProgressResponse</b>	The result data for the <b>GetImportProgress WSDL operation</b> .

#### 3.1.4.58.2.1 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:** An **empty GUID**.

#### 3.1.4.58.2.2 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>
```





```

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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>TypeDescriptor</b> is 0. <a href="#">&lt;64&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified <b>TypeDescriptor</b> does not exist. <a href="#">&lt;65&gt;</a></li> <li>The specified <b>TypeDescriptor</b> is not the root of the <b>TypeDescriptor</b> tree and the parent of the specified <b>TypeDescriptor</b> does not exist.</li> <li>An ancestor of the specified <b>TypeDescriptor</b> is not the root of the <b>TypeDescriptor</b> tree that contains the specified <b>TypeDescriptor</b> and the parent of the ancestor does not exist.</li> </ul>

### 3.1.4.59.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetLevelForTypeDescriptor</b> or <b>WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetLevelForTypeDescriptor</b> or WSDL operation.

### 3.1.4.59.1.1 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.

### 3.1.4.59.1.2 BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage

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

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

### 3.1.4.59.2 Elements

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

Element	Description
<b>GetLevelForTypeDescriptor</b>	The input data for the <b>GetLevelForTypeDescriptor</b> <b>WSDL operation</b> .
<b>GetLevelForTypeDescriptorResponse</b>	The result data for the <b>GetLevelForTypeDescriptor</b> WSDL operation.

### 3.1.4.59.2.1 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**.

### 3.1.4.59.2.2 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**.

### 3.1.4.59.3 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 GetLobSystemAllAssembliesBytes

This operation is used to retrieve the **Business Logic Modules** associated with the specified **LobSystem**, if the **systemType** element of the specified **LobSystem** does not have the value "Custom". If the **systemType** element of the specified **LobSystem** has the value "Custom", the behavior of this operation is implementation-specific. [<66>](#)

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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to read the

Error complex type	Condition
	specified <b>LobSystem.&lt;67&gt;</b>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>LobSystem</b> is 0.

### 3.1.4.60.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage</b>	The request WSDL message for the <b>GetLobSystemAllAssembliesBytes WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemAllAssembliesBytes WSDL operation</b> .

#### 3.1.4.60.1.1 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.

#### 3.1.4.60.1.2 BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage

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

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

### 3.1.4.60.2 Elements

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

Element	Description
<b>GetLobSystemAllAssembliesBytes</b>	The input data for the <b>GetLobSystemAllAssembliesBytes</b>

Element	Description
	<b>WSDL operation.</b>
<b>GetLobSystemAllAssembliesBytesResponse</b>	The result data for the <b>GetLobSystemAllAssembliesBytes</b> WSDL operation.

### 3.1.4.60.2.1 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**.

### 3.1.4.60.2.2 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, this element **MUST NOT** be present.

### 3.1.4.60.3 Complex Types

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

Complex type	Description
<b>ArrayOfbase64Binary</b>	Contains an array of elements, each containing encoded data.

#### 3.1.4.60.3.1 ArrayOfbase64Binary

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

The **ArrayOfbase64Binary** complex type MUST be an array of elements, where each element contains data encoded with **base64 encoding**.

```
<xs:complexType name="ArrayOfbase64Binary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

**base64Binary:** Data encoded with base64 encoding.

#### 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 GetLobSystemById

This 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_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/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_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/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/BusinessDataCatalogShar
edService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_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/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/BusinessDataCatalogShar
edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_Fa
ultMessage" 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 one of the conditions in the following table is met. 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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId.</li> <li>An LobSystem with the specified MetadataObjectId does not exist and the value of the <b>performErrorCheck</b> element is "false". <a href="#">&lt;68&gt;</a></li> </ul>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An <b>LobSystem</b> with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.61.1 Messages

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



Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemById_InputMessage</b>	The request WSDL message for the <b>GetLobSystemById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemById WSDL operation</b> .

### 3.1.4.61.1.1 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.

### 3.1.4.61.1.2 BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage

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

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

### 3.1.4.61.2 Elements

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

Element	Description
<b>GetLobSystemById</b>	The input data for the <b>GetLobSystemById WSDL operation</b> .
<b>GetLobSystemByIdResponse</b>	The result data for the <b>GetLobSystemById WSDL operation</b> .

### 3.1.4.61.2.1 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 will be retrieved.

**performErrorCheck:** The value of this element MUST be ignored if an **LobSystem** with the specified **MetadataObjectId** exists.

**partitionId:** An **empty GUID**.

### 3.1.4.61.2.2 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 an **empty GUID**.

#### 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 GetLobSystemByName

This operation is used to retrieve 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:operation>
```

```

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/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_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/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The security principal (2) in whose context the protocol client is operating is not authorized to read<69> the specified LobSystem.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The specified name length exceeds 255 characters.

Error complex type	Condition
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>LobSystem</b> does not exist.

### 3.1.4.62.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage</b>	The request WSDL message for the <b>GetLobSystemByName WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemByName WSDL operation</b> .

#### 3.1.4.62.1.1 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.

#### 3.1.4.62.1.2 BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage

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

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

### 3.1.4.62.2 Elements

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

Element	Description
<b>GetLobSystemByName</b>	The input data for the <b>GetLobSystemByName WSDL operation</b> .
<b>GetLobSystemByNameResponse</b>	The result data for the <b>GetLobSystemByName WSDL operation</b> .

### 3.1.4.62.2.1 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:** An **empty GUID**.

### 3.1.4.62.2.2 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.

### 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 GetLobSystemDataByLobSystem

This operation is used to retrieve **Business Logic Modules** <70> 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_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/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_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/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExcepti
onStateFault_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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to read the specified LobSystem. <a href="#">&lt;71&gt;</a>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>LobSystem</b> is 0. <a href="#">&lt;72&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>LobSystem</b> 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
<b>BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage</b>	The request WSDL message for the <b>GetLobSystemDataByLobSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemDataByLobSystem WSDL operation</b> .

#### 3.1.4.63.1.1 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.

#### 3.1.4.63.1.2 BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage

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

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

### 3.1.4.63.2 Elements

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

Element	Description
<b>GetLobSystemDataByLobSystem</b>	The input data for the <b>GetLobSystemDataByLobSystem WSDL operation</b> .
<b>GetLobSystemDataByLobSystemResponse</b>	The result data for the <b>GetLobSystemDataByLobSystem WSDL operation</b> .

### 3.1.4.63.2.1 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**.

### 3.1.4.63.2.2 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** [<73>](#) associated with the specified **LobSystem**.

### 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 GetLobSystemInstanceById

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId.</li> <li>▪ An LobSystemInstance with the specified MetadataObjectId does not exist and the value of the <b>performErrorCheck</b> element is "false".<a href="#">&lt;74&gt;</a></li> </ul>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An <b>LobSystemInstance</b> with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.64.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage</b>	The request WSDL message for the <b>GetLobSystemInstanceById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemInstanceById WSDL operation</b> .

### 3.1.4.64.1.1 BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage

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

The **SOAP action** value is:

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

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

### 3.1.4.64.1.2 BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage

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

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

### 3.1.4.64.2 Elements

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

Element	Description
<b>GetLobSystemInstanceById</b>	The input data for the <b>GetLobSystemInstanceById WSDL operation</b> .
<b>GetLobSystemInstanceByIdResponse</b>	The result data for the <b>GetLobSystemInstanceById WSDL operation</b> .

### 3.1.4.64.2.1 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: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>

```

**lobSystemInstanceId:** The **MetadataObjectId** of the **LobSystemInstance**.

**performErrorCheck:** The value of this element MUST be ignored if a **LobSystemInstance** with the specified **MetadataObjectId** exists.

**partitionId:** An **empty GUID**.

### 3.1.4.64.2.2 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**.

#### 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 GetLobSystemInstancesForLobSystem

This operation is used to retrieve the list of **LobSystemInstances** of the specified **LobSystem**. Only the **LobSystemInstances** that the **security principal (2)** in whose context the protocol client is operating is authorized to read [<75>](#) are returned.

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0. <a href="#">&lt;76&gt;</a>
<b>MetadataObjectNotFoundStateException</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist. <a href="#">&lt;77&gt;</a>

### 3.1.4.65.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage</b>	The request WSDL message for the <b>GetLobSystemInstancesForLobSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemInstancesForLobSystem WSDL operation</b> .

#### 3.1.4.65.1.1 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.

#### 3.1.4.65.1.2 BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage

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

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

### 3.1.4.65.2 Elements

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

Element	Description
<b>GetLobSystemInstancesForLobSystem</b>	The input data for the

Element	Description
	<b>GetLobSystemInstancesForLobSystem</b> WSDL operation.
<b>GetLobSystemInstancesForLobSystemResponse</b>	The result data for the <b>GetLobSystemInstancesForLobSystem</b> WSDL operation.

### 3.1.4.65.2.1 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:** An **empty GUID**.

### 3.1.4.65.2.2 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**.

### 3.1.4.65.3 Complex Types

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

Complex type	Description
<b>ArrayOfLobSystemInstanceStruct</b>	Contains a list of <b>LobSystemInstances</b> .

### 3.1.4.65.3.1 ArrayOfLobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type is a list of complex types, each of which represents an **LobSystemInstance**.

```
<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:** A complex type that represents an **LobSystemInstance**.

### 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 GetLobSystemProxyAssemblyBytesByLobSystemId

This operation is used to retrieve the implementation-specific **Business Logic Module** [<78>](#) 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_ArgumentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to read<79> the specified LobSystem.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified LobSystem is 0.
<b>InvalidMetadataPropertyExceptionState</b> (section <a href="#">2.2.4.37</a> )	The specified LobSystem has an invalid value for the <b>Property</b> named

Error complex type	Condition
	"SystemUtilityTypeName". The validity of this Property is specified in section <a href="#">3.1.4.82.2.2</a> .
<b>MetadataObjectNotFoundStateException</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist.

### 3.1.4.66.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage</b>	The request WSDL message for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation</b> .

#### 3.1.4.66.1.1 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.

#### 3.1.4.66.1.2 BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage

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

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

### 3.1.4.66.2 Elements

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

Element	Description
<b>GetLobSystemProxyAssemblyBytesByLobSystemId</b>	The input data for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation</b> .
<b>GetLobSystemProxyAssemblyBytesByLobSystemIdResponse</b>	The result data for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId WSDL operation</b> .

### 3.1.4.66.2.1 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** to retrieve the implementation-specific **Business Logic Module** from.

### 3.1.4.66.2.2 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 bytes of the implementation-specific **Business Logic Module** <sup><80></sup> associated with the specified **LobSystem**. If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the bytes of the first defined Business Logic Module as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23. If no Business Logic Module is found for the specified **LobSystem**, this element MUST be NULL.

### 3.1.4.66.3 Complex Types

None.

### 3.1.4.66.4 Simple Types

None.



```

edService/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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The length of the specified wildcard pattern exceeds 255 characters.</li> <li>▪ The format of the specified wildcard pattern is invalid.</li> </ul>

### 3.1.4.67.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage</b>	The request WSDL message for the <b>GetLobSystemsLikeName WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemsLikeName WSDL operation</b> .

#### 3.1.4.67.1.1 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.

### 3.1.4.67.1.2 BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage

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

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

### 3.1.4.67.2 Elements

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

Element	Description
<b>GetLobSystemsLikeName</b>	The input data for the <b>GetLobSystemsLikeName WSDL operation</b> .
<b>GetLobSystemsLikeNameResponse</b>	The result data for the <b>GetLobSystemsLikeName WSDL operation</b> .

#### 3.1.4.67.2.1 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** whose name or **localized name** matches the wildcard pattern. Following is 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 **LCID** representing the locale to be used when retrieving the **LobSystems**.

**partitionId:** An **empty GUID**.

### 3.1.4.67.2.2 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**.

### 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 GetLobSystemsReferencedByEntitiesAssociatedWithModel

This operation is used to retrieve the **LobSystems** that the **security principal (2)** in whose context the protocol client is operating is authorized to read [82](#) that are referenced by **Entities** associated with the specified **Model**.

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/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFal
t" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.<83>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified Model



Error complex type	Condition
	does not exist. <84>

### 3.1.4.68.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage</b>	The request WSDL message for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation</b> .

#### 3.1.4.68.1.1 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.

#### 3.1.4.68.1.2 BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage

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

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

### 3.1.4.68.2 Elements

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

Element	Description
<b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b>	The input data for the <b>GetLobSystemsReferencedByEntitiesAssociated</b>

Element	Description
	<b>edWithModel WSDL operation.</b>
<b>GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse</b>	The result data for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel WSDL operation.</b>

### 3.1.4.68.2.1 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:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="queryMode"
type="tns3: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** for the specified **Model**.

**queryMode:** The mode which specifies the **LobSystems** to be retrieved. The value MUST be an **LobSystemConstants.LobSystemsInModelQuery** (section [3.1.4.68.4.1](#)).

**partitionId:** An **empty GUID**.

### 3.1.4.68.2.2 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**.

### 3.1.4.68.3 Complex Types

None.

### 3.1.4.68.4 Simple Types

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

Simple type	Description
<b>LobSystemConstants.LobSystemsInModelQuery</b>	Specifies the mode in which to retrieve <b>LobSystems</b> .

### 3.1.4.68.4.1 LobSystemConstants.LobSystemsInModelQuery

#### Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode which 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 <b>LobSystems</b> referenced by the specified <b>Model</b> .
OwnedLobSystemsInModel	<b>LobSystems</b> referenced only by the specified <b>Model</b> . The returned <b>LobSystems</b> MUST NOT include <b>LobSystems</b> that are referenced by other <b>Models</b> .
SharedLobSystemsInModel	<b>LobSystems</b> referenced by the specified <b>Model</b> and by other <b>Models</b> . The returned <b>LobSystems</b> MUST NOT include <b>LobSystems</b> that are referenced only by the specified <b>Model</b> .

### 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 GetMethodById

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A Method with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.69.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodById_InputMessage</b>	The request WSDL message for the <b>GetMethodById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetMethodById_OutputMessage</b>	The response WSDL message for the <b>GetMethodById WSDL operation</b> .

#### 3.1.4.69.1.1 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.

#### 3.1.4.69.1.2 BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage

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

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

### 3.1.4.69.2 Elements

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

Element	Description
<b>GetMethodById</b>	The input data for the <b>GetMethodById WSDL operation</b> .
<b>GetMethodByIdResponse</b>	The result data for the <b>GetMethodById WSDL operation</b> .

#### 3.1.4.69.2.1 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: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>

```

**methodId:** The **MetadataObjectId** of the **Method**.

**performErrorCheck:** The value of this element MUST be ignored if a **Method** with the specified **MetadataObjectId** exists. If **Method** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

### 3.1.4.69.2.2 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**.

### 3.1.4.69.3 Complex Types

None.

### 3.1.4.69.4 Simple Types

None.

### 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 GetMethodInstanceById

This operation is used to retrieve 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A MethodInstance with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.70.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage</b>	The request WSDL message for the <b>GetMethodInstanceById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstanceById WSDL operation</b> .

#### 3.1.4.70.1.1 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.

#### 3.1.4.70.1.2 BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage

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

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

### 3.1.4.70.2 Elements

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

Element	Description
<b>GetMethodInstanceById</b>	The input data for the <b>GetMethodInstanceById WSDL operation</b> .
<b>GetMethodInstanceByIdResponse</b>	The result data for the <b>GetMethodInstanceById WSDL operation</b> .

#### 3.1.4.70.2.1 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** for the **MethodInstance**.

**performErrorCheck:** The value of this element MUST be ignored if a **MethodInstance** with the specified **MetadataObjectId** exists. If a **MethodInstance** with the specified **MetadataObjectId** does not exist and value of this element is false, the protocol server MUST set the value of the **GetMethodInstanceByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

### 3.1.4.70.2.2 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**.

### 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 GetMethodInstancesForDataClass

This operation is used to retrieve 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_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/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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section <a href="#">2.2.4.43</a> )	The specified DataClass does not exist. <85>

### 3.1.4.71.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage</b>	The request WSDL message for the <b>GetMethodInstancesForDataClass WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstancesForDataClass WSDL operation</b> .

#### 3.1.4.71.1.1 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.

#### 3.1.4.71.1.2 BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage

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

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

### 3.1.4.71.2 Elements

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

Element	Description
<b>GetMethodInstancesForDataClass</b>	The input data for the <b>GetMethodInstancesForDataClass</b>

Element	Description
	<b>WSDL operation.</b>
<b>GetMethodInstancesForDataClassResponse</b>	The result data for the <b>GetMethodInstancesForDataClass</b> WSDL operation.

### 3.1.4.71.2.1 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** for the **DataClass**.

**partitionId:** An **empty GUID**.

### 3.1.4.71.2.2 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**.

### 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 GetMethodInstancesForMethod

This operation is used to retrieve 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_MetadataExceptionSt
ateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section 2.2.4.43)	The specified Method does not exist. <86>

### 3.1.4.72.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage</b>	The request WSDL message for the <b>GetMethodInstancesForMethod WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstancesForMethod WSDL operation</b> .

#### 3.1.4.72.1.1 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.

#### 3.1.4.72.1.2 BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage

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

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

### 3.1.4.72.2 Elements

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

Element	Description
<b>GetMethodInstancesForMethod</b>	The input data for the <b>GetMethodInstancesForMethod WSDL operation</b> .
<b>GetMethodInstancesForMethodResponse</b>	The result data for the <b>GetMethodInstancesForMethod WSDL operation</b> .

#### 3.1.4.72.2.1 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** for the **Method**.

**partitionId:** An **empty GUID**.

#### 3.1.4.72.2.2 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**.

### 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 GetMethodsForDataClass

This operation is used to retrieve 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:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0. <87>
<b>MetadataObjectNotFoundExeptionState</b> (section 2.2.4.43)	The specified DataClass does not exist. <88>

### 3.1.4.73.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage</b>	The request WSDL message for the <b>GetMethodsForDataClasses WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage</b>	The response WSDL message for the <b>GetMethodsForDataClasses WSDL operation</b> .

#### 3.1.4.73.1.1 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.

#### 3.1.4.73.1.2 BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage

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

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

### 3.1.4.73.2 Elements

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

Element	Description
<b>GetMethodsForDataClass</b>	The input data for the <b>GetMethodsForDataClass WSDL operation</b> .
<b>GetMethodsForDataClassResponse</b>	The result data for the <b>GetMethodsForDataClass WSDL operation</b> .

### 3.1.4.73.2.1 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:** An **empty GUID**.

### 3.1.4.73.2.2 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**.

### 3.1.4.73.3 Complex Types

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

Complex type	Description
<b>ArrayOfMethodStruct</b>	Contains a list of <b>Methods</b> .

### 3.1.4.73.3.1 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:** The element contains information about a Method.

### 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 GetModelById

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
  </wsdl:fault>
</wsdl:operation>
```

```

name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A Model with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.74.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetModelById_InputMessage</b>	The request WSDL message for the <b>GetModelById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetModelById_OutputMessage</b>	The response WSDL message for the <b>GetModelById WSDL operation</b> .

#### 3.1.4.74.1.1 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.

### 3.1.4.74.1.2 BusinessDataCatalogSharedService\_GetModelById\_OutputMessage

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

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

### 3.1.4.74.2 Elements

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

Element	Description
<b>GetModelById</b>	The input data for the <b>GetModelById WSDL operation</b> .
<b>GetModelByIdResponse</b>	The result data for the <b>GetModelById WSDL operation</b> .

#### 3.1.4.74.2.1 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** for the **Model**.

**performErrorCheck:** The value of this element MUST be ignored if a **Model** with the specified **MetadataObjectId** exists. If a **Model** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

#### 3.1.4.74.2.2 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>
```



```

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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The length of the specified name exceeds 255 characters.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Model does not exist.

### 3.1.4.75.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetModelByName_InputMessage</b>	The request WSDL message for the <b>GetModelByName WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetModelByName_OutputMessage</b>	The response WSDL message for the <b>GetModelByName WSDL operation</b> .

#### 3.1.4.75.1.1 BusinessDataCatalogSharedService\_GetModelByName\_InputMessage

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

The **SOAP action** value is:

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

### 3.1.4.75.1.2 BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage

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

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

### 3.1.4.75.2 Elements

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

Element	Description
<b>GetModelByName</b>	The input data for the <b>GetModelByName WSDL operation</b> .
<b>GetModelByNameResponse</b>	The result data for the <b>GetModelByName WSDL operation</b> .

#### 3.1.4.75.2.1 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 **empty GUID**.

#### 3.1.4.75.2.2 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**.

### 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 GetModelsByEntityId

This operation is used to retrieve 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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"
    message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Entity does not exist. <a href="#">&lt;89&gt;</a>

### 3.1.4.76.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage</b>	The request WSDL message for the <b>GetModelsByEntityId WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage</b>	The response WSDL message for the <b>GetModelsByEntityId WSDL operation</b> .

#### 3.1.4.76.1.1 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.

### 3.1.4.76.1.2 BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage

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

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

#### 3.1.4.76.2 Elements

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

Element	Description
<b>GetModelsByEntityId</b>	The input data for the <b>GetModelsByEntityId WSDL operation</b> .
<b>GetModelsByEntityIdResponse</b>	The result data for the <b>GetModelsByEntityId WSDL operation</b> .

##### 3.1.4.76.2.1 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:** An **empty GUID**.

##### 3.1.4.76.2.2 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**.

#### 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 GetModelsByName

This operation is used to retrieve the **Models** that match the specified wildcard pattern.

A **Model** matches the wildcard pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Model**, or the **localized name** of the **Model** with **LCID** 0, or the localized name of the **Model** with 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The length of the specified wildcard pattern exceeds 255 characters.</li> <li>▪ The format of the specified wildcard pattern is invalid.</li> </ul>

### 3.1.4.77.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetModelsByName_InputMessage</b>	The request WSDL message for the <b>GetModelsByName WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetModelsByName_OutputMessage</b>	The response WSDL message for the <b>GetModelsByName WSDL operation</b> .

#### 3.1.4.77.1.1 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.

### 3.1.4.77.1.2 BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage

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

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

### 3.1.4.77.2 Elements

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

Element	Description
<b>GetModelsByName</b>	The input data for the <b>GetModelsByName WSDL operation</b> .
<b>GetModelsByNameResponse</b>	The result data for the <b>GetModelsByName WSDL operation</b> .

#### 3.1.4.77.2.1 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. 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 **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 **LCID** representing the locale to be used when retrieving the **Models**.

**partitionId:** An **empty GUID**.

### 3.1.4.77.2 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**.

### 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 GetParameterById

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_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/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_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/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_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/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_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/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/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_Fa
ultMessage" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataobjectNotFoundExceptionState</b> (section 2.2.4.43)	A Parameter with the specified <b>MetadataObjectId</b> does not exist and the value of <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.78.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetParameterById_InputMessage</b>	The request WSDL message for the <b>GetParameterById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetParameterById_OutputMessage</b>	The response WSDL message



Message	Description
	for the <b>GetParameterById</b> WSDL operation.

### 3.1.4.78.1.1 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.

### 3.1.4.78.1.2 BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage

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

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

### 3.1.4.78.2 Elements

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

Element	Description
<b>GetParameterById</b>	The input data for the <b>GetParameterById</b> <b>WSDL operation</b> .
<b>GetParameterByIdResponse</b>	The result data for the <b>GetParameterById</b> WSDL operation.

#### 3.1.4.78.2.1 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 if a **Parameter** with the specified **MetadataObjectId** exists. If a **Parameter** with the specified **MetadataObjectId** does not exist and

value of this element is **false**, the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

**partitionId**: An **empty GUID**.

### 3.1.4.78.2 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**.

### 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 GetParametersForMethod

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_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/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_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/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_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/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_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/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_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/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFa
ult_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0. <a href="#">&lt;90&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Method does not exist. <a href="#">&lt;91&gt;</a>

### 3.1.4.79.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage</b>	The request WSDL message for the <b>GetParametersForMethod WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage</b>	The response WSDL message for the <b>GetParametersForMethod WSDL operation</b> .

### 3.1.4.79.1.1 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.

### 3.1.4.79.1.2 BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage

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

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

### 3.1.4.79.2 Elements

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

Element	Description
<b>GetParametersForMethod</b>	The input data for the <b>GetParametersForMethod WSDL operation</b> .
<b>GetParametersForMethodResponse</b>	The result data for the <b>GetParametersForMethod WSDL operation</b> .

#### 3.1.4.79.2.1 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>
```

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

**methodId:** The **MetadataObjectId** of the **Method**.

**partitionId:** An **empty GUID**.

### 3.1.4.79.2 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**.

### 3.1.4.79.3 Complex Types

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

Complex type	Description
<b>ArrayOfParameterStruct</b>	Contains a list of <b>Parameters</b> .

#### 3.1.4.79.3.1 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.

#### 3.1.4.79.4 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 GetRootTypeDescriptorForParameter

This operation is used to retrieve 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/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section 2.2.4.43)	The specified Parameter does not exist.

### 3.1.4.80.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage</b>	The request WSDL message for the <b>GetRootTypeDescriptorForParameter WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage</b>	The response WSDL message for the <b>GetRootTypeDescriptorForParameter WSDL operation</b> .

#### 3.1.4.80.1.1 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.

#### 3.1.4.80.1.2 BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage

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

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

### 3.1.4.80.2 Elements

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

Element	Description
<b>GetRootTypeDescriptorForParameter</b>	The input data for the <b>GetRootTypeDescriptorForParameter WSDL operation</b> .
<b>GetRootTypeDescriptorForParameterResponse</b>	The result data for the <b>GetRootTypeDescriptorForParameter WSDL operation</b> .

### 3.1.4.80.2.1 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:** An **empty GUID**.

### 3.1.4.80.2.2 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**.

### 3.1.4.80.3 Complex Types

None.

### 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 GetServiceApplicationId

This operation is used to retrieve the unique implementation-specific identifier of **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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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.

#### 3.1.4.81.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage</b>	The request WSDL message for the <b>GetServiceApplicationId WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage</b>	The response WSDL message for the <b>GetServiceApplicationId WSDL operation</b> .

#### 3.1.4.81.1.1 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.

### 3.1.4.81.1.2 BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage

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

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

### 3.1.4.81.2 Elements

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

Element	Description
<b>GetServiceApplicationId</b>	The input data for the <b>GetServiceApplicationId WSDL operation</b> .
<b>GetServiceApplicationIdResponse</b>	The result data for the <b>GetServiceApplicationId WSDL operation</b> .

#### 3.1.4.81.2.1 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>
```

#### 3.1.4.81.2.2 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 **metadata store**. The value of the identifier MUST be a **GUID**.

### 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 GetSystemUtilityTypeNameForLobSystem

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_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/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentEx
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/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNu
llExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOu
tOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The module cannot be found or loaded.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>InvalidMetadataPropertyExceptionState</b> (section <a href="#">2.2.4.37</a> )	The specified LobSystem has an invalid value for the <b>Property</b> named "SystemUtilityTypeName". Validity of this <b>Property</b> is specified in section <a href="#">3.1.4.82.2.2</a> .

### 3.1.4.82.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage</b>	The request WSDL message for the <b>GetSystemUtilityTypeNameForLobSystem WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage</b>	The response WSDL message for the <b>GetSystemUtilityTypeNameForLobSystem WSDL operation</b> .

### 3.1.4.82.1.1 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.

### 3.1.4.82.1.2 BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage

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

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

### 3.1.4.82.2 Elements

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

Element	Description
<b>GetSystemUtilityTypeNameForLobSystem</b>	The input data for the <b>GetSystemUtilityTypeNameForLobSystem WSDL operation</b> .
<b>GetSystemUtilityTypeNameForLobSystemResponse</b>	The result data for the <b>GetSystemUtilityTypeNameForLobSystem WSDL operation</b> .

#### 3.1.4.82.2.1 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**.

#### 3.1.4.82.2.2 GetSystemUtilityTypeNameForLobSystemResponse



```

edService/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/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById ArgumentOutofRangeExcepti
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/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_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/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_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/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById MetadataExceptionStateFau
lt 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	A TypeDescriptor with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.83.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage</b>	The request WSDL message for the <b>GetTypeDescriptorById WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage</b>	The response WSDL message for the

Message	Description
	<b>GetTypeDescriptorById</b> WSDL operation.

### 3.1.4.83.1.1 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.

### 3.1.4.83.1.2 BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage

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

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

### 3.1.4.83.2 Elements

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

Element	Description
<b>GetTypeDescriptorById</b>	The input data for the <b>GetTypeDescriptorById WSDL operation</b> .
<b>GetTypeDescriptorByIdResponse</b>	The result data for the <b>GetTypeDescriptorById WSDL operation</b> .

#### 3.1.4.83.2.1 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 if a **TypeDescriptor** with the specified **MetadataObjectId** exists. If a **TypeDescriptor** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

**partitionId:** An **empty GUID**.

### 3.1.4.83.2.2 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**.

### 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 GetTypeDescriptorsByNameAndLevelForParameter

This operation SHOULD [<93>](#) 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 0.
- The level of 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified <b>MetadataObjectId</b> is 0.</li> <li>The specified level is less than 0.</li> </ul>

### 3.1.4.84.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage</b>	The request WSDL message for the <b>GetTypeDescriptorsByNameAndLevelForParameter WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage</b>	The response WSDL message for the <b>GetTypeDescriptorsByNameAndLevelForParameter WSDL operation</b> .

#### 3.1.4.84.1.1 BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage

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

The **SOAP action** value is:

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

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

#### 3.1.4.84.1.2 BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage

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

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

### 3.1.4.84.2 Elements

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

Element	Description
<b>GetTypeDescriptorsByNameAndLevelForParameter</b>	The input data for the <b>GetTypeDescriptorsByNameAndLevelForParameter WSDL operation</b> .
<b>GetTypeDescriptorsByNameAndLevelForParameterResponse</b>	The result data for the <b>GetTypeDescriptorsByNameAndLevelForParameter WSDL operation</b> .

### 3.1.4.84.2.1 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. [<94>](#)

**partitionId:** An **empty GUID**.

### 3.1.4.84.2.2 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**.

### 3.1.4.84.3 Complex Types

None.

### 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 GetTypeDescriptorsForFilterDescriptor

This operation is used to retrieve **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/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor 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/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_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/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_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptionStateFault 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> of the <b>FilterDescriptor</b> is 0.

### 3.1.4.85.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage</b>	The request WSDL message for the <b>GetTypeDescriptorsForFilterDescriptor WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetTypeDescriptorsForFilterDescriptor WSDL operation</b> .

#### 3.1.4.85.1.1 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.

### 3.1.4.85.1.2 BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor or\_OutputMessage

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

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

### 3.1.4.85.2 Elements

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

Element	Description
<b>GetTypeDescriptorsForFilterDescriptor</b>	The input data for the <b>GetTypeDescriptorsForFilterDescriptor WSDL operation</b> .
<b>GetTypeDescriptorsForFilterDescriptorResponse</b>	The result data for the <b>GetTypeDescriptorsForFilterDescriptor WSDL operation</b> .

#### 3.1.4.85.2.1 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: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**: An **empty GUID**.

#### 3.1.4.85.2.2 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**.

### 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 GetTypeReflectorTypeNameForParameter

This operation is used to retrieve 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/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOpe
rationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataEx
ceptionStateFault_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 one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The type specified by a type name of the TypeReflector of the specified Parameter is invalid according to the protocol server's implementation-specific rules.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified Parameter is 0.

### 3.1.4.86.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage</b>	The request WSDL message for the <b>GetTypeReflectorTypeNameForParameter WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage</b>	The response WSDL message for the <b>GetTypeReflectorTypeNameForParameter WSDL operation</b> .

### 3.1.4.86.1.1 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.

### 3.1.4.86.1.2 BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage

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

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

### 3.1.4.86.2 Elements

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

Element	Description
<b>GetTypeReflectorTypeNameForParameter</b>	The input data for the <b>GetTypeReflectorTypeNameForParameter WSDL operation</b> .
<b>GetTypeReflectorTypeNameForParameterResponse</b>	The result data for the <b>GetTypeReflectorTypeNameForParameter WSDL operation</b> .

#### 3.1.4.86.2.1 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** for which the type name of the **TypeReflector** will be retrieved.

#### 3.1.4.86.2.2 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**.

### 3.1.4.86.3 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 GetXmlSchemaForView

This operation is used to retrieve an **XML schema definition (XSD)** that specifies a data structure that can store the data corresponding to a **View** that corresponds to the specified **MethodInstance**. The resulting XSD MUST conform to [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#). The following types of **MethodInstance** have a **View** corresponding to them:

- **SpecificFinder**
- **BulkSpecificFinder**
- **Finder**
- **AssociationNavigator**
- **BulkAssociationNavigator**
- **IdEnumerator**
- **ChangedIdEnumerator**
- **DeletedIdEnumerator**

- **BulkIdEnumerator**
- **Creator**
- **Updater**

The MethodInstances of any other type do not have a View associated with them.

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>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The specified MethodInstance does not have a <b>View</b> .<95>
<b>ArgumentNullException</b> (section <a href="#">2.2.4.8</a> )	The specified <b>MethodInstance</b> does not have a <b>ReturnTypeDescriptor</b> and it is not an Updater or a Creator.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is greater than 0x7fffffff.
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The specified <b>MethodInstance</b> does not exist.

### 3.1.4.87.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage</b>	The request WSDL message for the <b>GetXmlSchemaForView WSDL operation</b> .
<b>BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage</b>	The response WSDL message for the <b>GetXmlSchemaForView WSDL operation</b> .

#### 3.1.4.87.1.1 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.

#### 3.1.4.87.1.2 BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage

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

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

### 3.1.4.87.2 Elements

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

Element	Description
<b>GetXmlSchemaForView</b>	The input data for the <b>GetXmlSchemaForView WSDL operation</b> .
<b>GetXmlSchemaForViewResponse</b>	The result data for the <b>GetXmlSchemaForView WSDL operation</b> .

### 3.1.4.87.2.1 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**.

### 3.1.4.87.2.2 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<96>. The XML schema MUST specify the **root element** that corresponds to the **View**. The name 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. For each **TypeDescriptor** the corresponding XML element MUST be declared as follows:

- The name of the corresponding XML element MUST be equal to the name of the **TypeDescriptor**.
- If the **TypeDescriptor** contains one or more other **TypeDescriptors**, the corresponding XML element MUST be declared as a **complex type** that contains XML elements that correspond to **TypeDescriptors** contained by the **TypeDescriptor**.
- If the **TypeDescriptor** does not contain any **TypeDescriptors**, and the data type represented by the **TypeDescriptor** can be represented by a **simple type**, the corresponding XML element MUST

be declared as that simple type. For example, if the data type represents a bit, the corresponding XML element is declared as "Boolean" simple type as specified in [XMLSCHEMA2] section 3.2.2.

- If the **TypeDescriptor** does not contain any **TypeDescriptors**, and the data type represented by the **TypeDescriptor** cannot be represented by a simple type, the corresponding XML element SHOULD be declared as a complex type that contains a single XML element as specified in [XMLSCHEMA0] section 5.5. However, if the data type represented by the **TypeDescriptor** can be represented by a set of simple types, the corresponding XML element MAY be declared as a complex type that contains XML elements to represent the set of simple types.
- If the **TypeDescriptor** is contained by another **TypeDescriptor** which has the **IsCollection** flag set to **true**, the value of the "maxOccurs" attribute as specified in [XMLSCHEMA1] section 3.3.2 MUST be "unbounded". Otherwise, the value MUST be 1.

XML elements corresponding to **TypeDescriptors** MUST contain the following annotations as specified in [XMLSCHEMA1] section 3.13. The XML elements MAY also contain additional implementation-specific annotations, or additional implementation-specific **XML attributes** for the XML elements that represent the annotations specified in this section. The XML namespace of the XML elements that correspond to annotations are implementation-specific. <97>

- If the **TypeDescriptor** has the **ReadOnly** flag set to **true**, the XML element MUST contain an annotation with name "FieldInfo", which has an XML attribute with name "ReadOnly" and value **true**.
- If the **TypeDescriptor** references an **Identifier**, and the **TypeDescriptor** references an **Association**, the XML element MUST contain an annotation with name "ForeignKeyInfo" that has the XML attributes in the following table specified with their names and values.

Name	Value
EntityNamespace	The namespace of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
EntityName	The name of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
IdentifierIndex	The index of the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> , within the <b>Entity</b> that contains the <b>Identifier</b> .
AssociationName	The name of the <b>Association</b> referenced by the <b>TypeDescriptor</b>

- If the **TypeDescriptor** references an **Identifier**, and the **TypeDescriptor** does not reference an **Association**, the XML element MUST contain an annotation with name "KeyInfo" that has the XML attributes in the following table specified with their names and values.

Name	Value
EntityNamespace	The namespace of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
EntityName	The name of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
IdentifierIndex	The index of the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> , within the <b>Entity</b> that contains the <b>Identifier</b> .

- If the **TypeDescriptor** contains **localized names**, the XML element MUST contain an annotation with name "LocalizedNames". The XML element that represents the annotation MUST contain XML

elements with name "LocalizedName" for each localized name contained by the **TypeDescriptor**. The value of the "LocalizedName" element MUST be the localized name, and it MUST have an XML attribute with name "LCID" and the **LCID** of the localized name as the value.

- If the **TypeDescriptor** has a **DefaultValue** for the specified **MethodInstance**, and data type of the **DefaultValue** can be represented by a simple type, the XML element MUST contain an annotation with name "DefaultValue" and the data of **DefaultValue** as the value.

### 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 HaveRights

The **HaveRights** operation retrieves whether the **security principal (2)** 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
```



```

message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage" 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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.88.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_HaveRights_InputMessage</b>	The request WSDL message for the <b>HaveRights WSDL operation</b> .
<b>BusinessDataCatalogSharedService_HaveRights_OutputMessage</b>	The response WSDL message for the <b>HaveRights WSDL operation</b> .

#### 3.1.4.88.1.1 BusinessDataCatalogSharedService\_HaveRights\_InputMessage

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

The **SOAP action** value is:

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

### 3.1.4.88.1.2 BusinessDataCatalogSharedService\_HaveRights\_OutputMessage

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

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

### 3.1.4.88.2 Elements

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

Element	Description
<b>HaveRights</b>	The input data for the <b>HaveRights WSDL operation</b> .
<b>HaveRightsResponse</b>	The result data for the <b>HaveRights WSDL operation</b> .

#### 3.1.4.88.2.1 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:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="q1: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 an **empty GUID**.

**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** which contains the ACEs. If the value of this element is NULL the protocol server MUST use the ACEs contained by the default **Setting**.

#### 3.1.4.88.2.2 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 (2)** 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.

### 3.1.4.88.3 Complex Types

None.

### 3.1.4.88.4 Simple Types

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

Simple type	Description
<b>BdcRights</b>	Specifies the permission given a <b>security principal (1)</b> on a <b>MetadataObject</b> .

#### 3.1.4.88.4.1 BdcRights

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

The **BdcRights** simple type represents a permission a given **security principal (2)** 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>

```

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

Value	Meaning
None	No permissions.
Execute	The security principal (2) has the permission to call a <b>MethodInstance</b> .
Edit	The security principal (2) has permission to change the attributes of a <b>MetadataObject</b> or its relationship to other <b>MetadataObjects</b> .

Value	Meaning
SetPermissions	The security principal (2) has permission to change the set of permissions for a <b>MetadataObject</b> .
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.
SelectableInClients	The security principal (2) has permission to select the <b>MetadataObject</b> this permission refers to in an implementation-specific user interface from a list of available <b>MetadataObjects</b> . If the security principal (2) does not have this permission, the <b>MetadataObject</b> SHOULD NOT be presented in such a list.

### 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 ImportPackage

This operation is used to create 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 **XML** that conforms to [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains an **LobSystem** that has the same name and type as an **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** 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 "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML that conforms to [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"/>
</wsdl:operation>
```

```

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/BusinessDataCatalogShar
edService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_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/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_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/ImportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
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/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_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/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_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/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_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/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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to create or modify the specified <b>Model</b> .
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34.</li> <li>▪ The "Model" value is not specified for the</li> </ul>

Error complex type	Condition
	<p><b>packageContents</b> element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28.</p> <ul style="list-style-type: none"> <li>▪ The value of the <b>updateModel</b> element is "false", the "Model" value is specified for <b>packageContents</b> element and there is already another <b>Model</b> with the same name as the <b>Model</b> contained by the <b>MetadataModel</b> in the specified <b>Partition</b>.</li> <li>▪ The value of the <b>updateModel</b> element is "true", the "Model" value is specified for <b>packageContents</b> element and the <b>Model</b> contained by the <b>MetadataModel</b> does not exist in the specified <b>Partition</b>.</li> <li>▪ The "Model" value is not specified for the <b>packageContents</b> element and at least one the <b>MetadataObjects</b> contained by the <b>MetadataModel</b> does not exist in the metadata store.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>LobSystems</b> contained by the <b>MetadataModel</b> has the same name as an <b>LobSystem</b> in the metadata store, but the <b>LobSystem</b> contained by the <b>MetadataModel</b> has a different type than the <b>LobSystem</b> in the metadata store.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>Entities</b> contained by the <b>MetadataModel</b> has the same name, namespace and version as an <b>Entity</b> in the metadata store, but the names of the <b>LobSystems</b> that contain these <b>Entities</b> are not identical.</li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified <b>MetadataModel</b> contains <b>LobSystem</b> with an associated <b>Business Logic Module</b>.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> that specifies <b>ReturnTypeDescriptor</b> that contains other <b>TypeDescriptors</b>.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnTypeDescriptor</b> of this <b>MethodInstance</b> contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LobSystem</b></li> </ul>

Error complex type	Condition
	<p>containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains MethodInstance, and the <b>Method</b> for which this <b>MethodInstance</b> is being created does not have a <b>Parameter</b> whose <b>Direction</b> is "In" or "InOut" and the type of this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a TimeStampFilter and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> </ul>

### 3.1.4.89.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ImportPackage_InputMessage</b>	The request WSDL message for the <b>ImportPackage WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ImportPackage_OutputMessage</b>	The response WSDL message for the <b>ImportPackage WSDL operation</b> .

### 3.1.4.89.1.1 BusinessDataCatalogSharedService\_ImportPackage\_InputMessage

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

The **SOAP action** value is:

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

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

### 3.1.4.89.1.2 BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage

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

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

## 3.1.4.89.2 Elements

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

Element	Description
<b>ImportPackage</b>	The input data for the <b>ImportPackage WSDL operation</b> .
<b>ImportPackageResponse</b>	The result data for the <b>ImportPackage WSDL operation</b> .

### 3.1.4.89.2.1 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>
```



</xs:element>

**xml:** The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the **metadata store**. The protocol server MUST set all the **Entities** contained by the specified **MetadataModel** as active. If any of the **Entities** contain reference errors as specified in section [3.1.4.4.3.2](#), the protocol server MUST NOT set any Entity contained by the specified **MetadataModel** as active.
- If "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**.

**settingId:** The **Setting** to create the Properties, localized names, and ACEs in.

**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.

**updateModel:** Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **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.

### 3.1.4.89.2.2 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 is corresponding 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.

### 3.1.4.89.3 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 ImportPackageWithProgress

This operation is used to create 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 **XML** that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains an **LobSystem** that has the same name and type as an **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** 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 "Model" value is not specified for the **packageContents** element.

The **MetadataModel** MUST be specified as an XML that conforms to [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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault 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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to create or modify the specified <b>Model</b> .
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34.</li> <li>▪ The "Model" value is not specified for the <b>packageContents</b> element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28.</li> <li>▪ The value of the <b>updateModel</b> element is "false", the "Model" value is specified for <b>packageContents</b> element and there is already another <b>Model</b> with the same name as the <b>Model</b> contained by the <b>MetadataModel</b> in the specified <b>Partition</b>.</li> <li>▪ The value of the <b>updateModel</b> element is "true", the "Model" value is specified for <b>packageContents</b> element and the <b>Model</b> contained by the <b>MetadataModel</b> does not exist in the specified <b>Partition</b>.</li> <li>▪ The "Model" value is not specified for the <b>packageContents</b> element and at least one the <b>MetadataObjects</b> contained by the <b>MetadataModel</b> does not exist in the metadata store.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>LobSystems</b> contained by the <b>MetadataModel</b> has the same name as an <b>LobSystem</b> in the metadata store, but the <b>LobSystem</b> contained by the <b>MetadataModel</b> has a different type than the <b>LobSystem</b> in the metadata store.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>Entities</b> contained by the <b>MetadataModel</b> has the same name, namespace and version as an <b>Entity</b> in the metadata store, but the names of the <b>LobSystems</b> that contain these <b>Entities</b> are not identical.</li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified</li> </ul>

Error complex type	Condition
	<p><b>MetadataModel</b> contains <b>LobSystem</b> with an associated <b>Business Logic Module</b>.</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> that specifies <b>ReturnTypeDescriptor</b> that contains other <b>TypeDescriptors</b>.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnTypeDescriptor</b> of this <b>MethodInstance</b> contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LobSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains <b>MethodInstance</b>, and the <b>Method</b> for which this <b>MethodInstance</b> is being created does not have a <b>Parameter</b> whose <b>Direction</b> is "In" or "InOut" and the type of the this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ StreamAccessor</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a TimeStampFilter and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> </ul>

### 3.1.4.90.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage</b>	The request WSDL message for the <b>ImportPackageWithProgress WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage</b>	The response WSDL message for the <b>ImportPackageWithProgress WSDL operation</b> .

#### 3.1.4.90.1.1 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.

#### 3.1.4.90.1.2 BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage

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

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

### 3.1.4.90.2 Elements

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

Element	Description
<b>ImportPackageWithProgress</b>	The input data for the <b>ImportPackageWithProgress WSDL operation</b> .
<b>ImportPackageWithProgressResponse</b>	The result data for the <b>ImportPackageWithProgress WSDL operation</b> .

### 3.1.4.90.2.1 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 [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the metadata store. The protocol server MUST set all the **Entities** contained by the specified **MetadataModel** as active. If any of the **Entities** contain reference errors as specified in section [3.1.4.4.3.2](#), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
- If "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**.

**settingId:** The **Setting** in which to create the **Properties**, localized names, and ACEs.

**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.

**updateModel:** Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **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.

**jobId:** Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

### 3.1.4.90.2.2 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 is corresponding 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.

### 3.1.4.90.3 Complex Types

None.

### 3.1.4.90.4 Simple Types



None.

### 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 IsMethodInstantiated

This operation is used to determine if 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_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.

### 3.1.4.91.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage</b>	The request WSDL message for the <b>IsMethodInstantiated WSDL operation</b> .
<b>BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage</b>	The response WSDL message for the <b>IsMethodInstantiated WSDL operation</b> .

#### 3.1.4.91.1.1 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/IsMethodInstantiated
```

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

#### 3.1.4.91.1.2 BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage

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

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

### 3.1.4.91.2 Elements

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

Element	Description
<b>IsMethodInstantiated</b>	The input data for the <b>IsMethodInstantiated WSDL operation</b> .
<b>IsMethodInstantiatedResponse</b>	The result data for the <b>IsMethodInstantiated WSDL operation</b> .

### 3.1.4.91.2.1 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:** An **empty GUID**.

### 3.1.4.91.2.2 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:** The value of this element MUST be "true", if the **Method** contains at least one **MethodInstance**. Otherwise it MUST be set to "false".

#### 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 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/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>Parameter</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Parameter</b> does not exist.

### 3.1.4.92.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage</b>	The request WSDL message for the <b>IsParameterReferencedByMethodInstance WSDL operation</b> .
<b>BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage</b>	The response WSDL message for the <b>IsParameterReferencedByMethodInstance WSDL operation</b> .

#### 3.1.4.92.1.1 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.

#### 3.1.4.92.1.2 BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage

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

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

### 3.1.4.92.2 Elements

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

Element	Description
<b>IsParameterReferencedByMethodInstance</b>	The input data for the <b>IsParameterReferencedByMethodInstance WSDL operation</b> .
<b>IsParameterReferencedByMethodInstanceResponse</b>	The result data for the <b>IsParameterReferencedByMethodInstance WSDL operation</b> .

#### 3.1.4.92.2.1 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:** An **empty GUID**.

#### 3.1.4.92.2.2 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 the value of this element is **true**, the specified **Parameter** contains a **ReturnTypeDescriptor**. If the value of this element is **false**, the specified **Parameter** does not contain a **ReturnTypeDescriptor**. [<98>](#)

### 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 MetadataObjectCreate

This operation is used to create 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, then this operation MUST NOT change the state of the data in the metadata store.

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"
    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/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_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/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFaul
t_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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies an <b>LobSystem</b> and the <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>LobSystemInstance</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>LobSystem</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>Identifier</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>Action</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>ActionParameter</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> that contains the <b>Action</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a <b>Method</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>AssociationGroup</b> and the security principal (2) in whose context the protocol client is</li> </ul>



Error complex type	Condition
	<p>operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a <b>Parameter</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a <b>FilterDescriptor</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>Association</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> containing the <b>Method</b> specified by the <b>parentStruct</b> element.</li> </ul>
<p><b>ArgumentException</b> (section <a href="#">2.2.4.7</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies a <b>MetadataObject</b> with invalid attributes.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that specifies a <b>ReturnTypeDescriptor</b> that is not contained by any <b>Parameters</b> that are contained by the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that specifies a <b>ReturnTypeDescriptor</b> that is contained by a <b>Parameter</b> with direction "In".</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that does not specify a <b>ReturnTypeDescriptor</b> and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ Scalar</li> <li>▪ SpecificFinder</li> <li>▪ StreamAccessor</li>   <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that has a <b>ReturnTypeDescriptor</b> with <b>isCollection</b> element value set to "false" in the <b>typeDescriptorFlags</b> element, and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> </ul> </li>   <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that has a <b>ReturnTypeDescriptor</b> with <b>isCollection</b> element value set to "true" in the <b>typeDescriptorFlags</b> element and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ SpecificFinder</li> <li>▪ Scalar</li> <li>▪ AccessChecker</li> <li>▪ Creator</li> <li>▪ StreamAccessor</li> </ul> </li>   <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that has a <b>ReturnTypeDescriptor</b> that contains other <b>TypeDescriptors</b>, and the type of the specified <b>MethodInstance</b> is "StreamAccessor".</li>   <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> and the <b>TypeDescriptor</b> that</li> </ul>

Error complex type	Condition
	<p>contains the <b>ReturnPropertyDescriptor</b> of the <b>MethodInstance</b> also contains other <b>TypeDescriptors</b>, and the <b>LobSystem</b> that contains the <b>DataClass</b> that contains the <b>Method</b> that contains the <b>MethodInstance</b> does not allow this configuration, and the specified <b>MethodInstance</b> is a <b>StreamAccessor</b>.</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b>, and the <b>Method</b> specified by the <b>parentStruct</b> element does not contain a <b>TimeStampFilter</b>, and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that requires an input but the <b>Method</b> specified by <b>parentStruct</b> does not contain any <b>Parameters</b> with direction "In" or "InOut".</li> <li>▪ The <b>rawValues</b> element specifies a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>, but the <b>Method</b> specified by the <b>parentStruct</b> already contains a <b>TimeStampFilter</b>.</li> <li>▪ The <b>rawValues</b> element specifies a <b>Parameter</b> with direction "Return" but the <b>Method</b> specified by <b>parentStruct</b> already contains another <b>Parameter</b> with direction "Return".</li> <li>▪ The <b>rawValues</b> element specifies an <b>Association</b> and the same <b>Entity</b> is specified as a source of the <b>Association</b> more than once.</li> </ul>
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The <b>MetadataObject</b> specified in <b>rawValues</b> element is an <b>Entity</b> or a <b>TypeDescriptor</b> .
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies an <b>LobSystem</b> and another <b>LobSystem</b> with the same name already exists in the metadata store.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> and the <b>DataClass</b>, which contains the <b>Method</b> specified by the <b>parentStruct</b> element, already contains another <b>Method</b> that contains a <b>MethodInstance</b> with the same name as the specified <b>MethodInstance</b>.</li> <li>▪ The <b>rawValues</b> element specifies an <b>Association</b> and the <b>DataClass</b>, which contains the <b>Method</b> specified by the <b>parentStruct</b> element, already contains another <b>Method</b> that contains an <b>Association</b> with the same name as the specified</li> </ul>

Error complex type	Condition
	<p><b>Association.</b></p> <ul style="list-style-type: none"> <li>On the server, if two threads are calling the same function at the same time, and the <b>rawValues</b> element of both threads specifies a <b>MetadataCatalog</b> with the same <b>Partition</b>, then one thread can cause the server to respond with a <b>DuplicateMetadataObjectExceptionState</b> exception.</li> <li>The <b>MetadataObject</b> specified by the <b>parentStruct</b> element already contains another <b>MetadataObject</b> that has same name and type as the <b>MetadataObject</b> specified by the <b>rawValues</b> element.</li> </ul>
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The <b>MetadataObject</b> specified by the <b>parentStruct</b> element already contains the implementation-specific maximum number of <b>MetadataObjects</b> that have the same type as the <b>MetadataObject</b> specified by the <b>rawValues</b> element.</li> <li>The <b>rawValues</b> element specifies a <b>MethodInstance</b> that is of type <b>IdEnumerator</b>, <b>AccessChecker</b>, <b>Deleter</b>, <b>ChangedIdEnumerator</b>, <b>DeletedIdEnumerator</b>, or <b>BulkIdEnumerator</b>, but the <b>DataClass</b> containing the <b>Method</b> specified by the <b>parentStruct</b> element already has another <b>MethodInstance</b> of the same type.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The <b>MetadataObject</b> specified by the <b>parentStruct</b> is contained by an active <b>Entity</b> .<99>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The <b>MetadataObject</b> specified by the <b>parentStruct</b> element does not exist in the metadata store.</li> <li>The <b>rawValues</b> element specifies a <b>MetadataObject</b> other than <b>Association</b> that references another <b>MetadataObject</b> that does not exist in the metadata store.</li> </ul>

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 <b>Identifier</b> to 1 plus the maximum value of "OrdinalNumber" attributes of all the <b>Identifiers</b> contained by the <b>Entity</b> specified by the <b>parentStruct</b> element.

MetadataObject	Action
Parameter	Set the "OrdinalNumber" attribute of the created <b>Parameter</b> to 1 plus the maximum value of "OrdinalNumber" attributes of all the <b>Parameters</b> contained by the <b>Method</b> specified by the <b>parentStruct</b> element.
MethodInstance	Set the <b>IsDefault</b> attributes of all other <b>MethodInstances</b> of type equal to the type of the created <b>MethodInstance</b> within the <b>DataClass</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> element to <b>false</b> , if the <b>IsDefault</b> attribute is <b>true</b> on the created <b>MethodInstance</b> . If the <b>IsDefault</b> attribute is <b>false</b> on the created <b>MethodInstance</b> , and the <b>DataClass</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> element does not contain any other <b>MethodInstance</b> that has the type equal to the type of the created <b>MethodInstance</b> , the protocol server MUST set the <b>IsDefault</b> attribute of the created <b>MethodInstance</b> to <b>true</b> . Copy the <b>ACEs</b> from the <b>Entity</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> to the created <b>MethodInstance</b> .
LobSystem	Copy the ACEs from the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> to the created <b>LobSystem</b> .
Model	Copy the ACEs from the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> to the created <b>Model</b> .
Method	Copy the ACEs from the <b>Entity</b> specified by the <b>parentStruct</b> to the created <b>Method</b> .

### 3.1.4.93.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage</b>	The request WSDL message for the <b>MetadataObjectCreate WSDL operation</b> .
<b>BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectCreate WSDL operation</b> .

#### 3.1.4.93.1.1 BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage

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

The **SOAP action** value is:

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

### 3.1.4.93.1.2 BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage

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

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

### 3.1.4.93.2 Elements

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

Element	Description
<b>MetadataObjectCreate</b>	The input data for the <b>MetadataObjectCreate WSDL operation</b> .
<b>MetadataObjectCreateResponse</b>	The result data for the <b>MetadataObjectCreate WSDL operation</b> .

#### 3.1.4.93.2.1 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 protocol client MUST specify values for all the elements in this complex type.

**parentStruct:** Specifies the MetadataObject in which to create the new MetadataObject in.

#### 3.1.4.93.2.2 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>
```

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

**MetadataObjectCreateResult:** The created **MetadataObject**.[<100>](#) If the **MetadataObject** specified in the request is a **MetadataCatalog**, and another **MetadataCatalog** with the same **Partition** as the specified **MetadataCatalog** already exists in the **metadata store**, this operation MUST return the already existing **MetadataCatalog**.

### 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 MetadataObjectMergeXml

This operation is used to merge 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:

- **Action** element as specified in [MS-BDCMFFS](#) section 2.2.3.3.
- **ActionParameter** element as specified in [MS-BDCMFFS] section 2.2.3.4.
- **Association** element as specified in [MS-BDCMFFS] section 2.2.3.7.
- **AssociationGroup** element as specified in [MS-BDCMFFS] section 2.2.3.8
- **Entity** element as specified in [MS-BDCMFFS] section 2.2.3.11.
- **FilterDescriptor** element as specified in [MS-BDCMFFS] section 2.2.3.12.
- **Identifier** element as specified in [MS-BDCMFFS] section 2.2.3.14.
- **LobSystem** element as specified in [MS-BDCMFFS] section 2.2.3.17.
- **LobSystemInstance** element as specified in [MS-BDCMFFS] section 2.2.3.18.
- **Method** element as specified in [MS-BDCMFFS] section 2.2.3.24.
- **MethodInstance** element as specified in [MS-BDCMFFS] section 2.2.3.25.
- **Model** element as specified in [MS-BDCMFFS] section 2.2.3.28

- **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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_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 one of the conditions in the following table is met.

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
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>mergedStruct</b> element specifies a <b>TypeDescriptor</b>.</li> <li>▪ The "Properties" value is specified in the <b>packageContents</b> element, the specified <b>MetadataModel</b> contains Properties for a <b>MetadataObject</b>, and the <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify that <b>MetadataObject</b>.</li> <li>▪ The "LocalizedNames" value is specified in the <b>packageContents</b> element, the specified <b>MetadataModel</b> contains localized names for a <b>MetadataObject</b>, and the security principal (2) in whose context the protocol client is operating is not authorized to modify that <b>MetadataObject</b>.</li> <li>▪ The "Permissions" value is specified in the <b>packageContents</b> element, the specified <b>MetadataModel</b> contains ACEs for a <b>MetadataObject</b>, and the security principal (2) in whose context the protocol client is operating is not authorized to set permissions for that <b>MetadataObject</b>.</li> </ul>
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that already contain the implementation-specific maximum number of <b>Properties</b> and the <b>packageContents</b> element has "Properties" set in its value.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that already contain the implementation-specific maximum number of localized names and the <b>packageContents</b> element has "LocalizedNames" in its value.</li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> which does not contain any ACE that specifies "SetPermissions" permission, and the <b>packageContents</b> element has "Permissions" in its value, and the</li> </ul>

Error complex type	Condition
	<p>specified <b>MetadataObject</b> is one of the following:</p> <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>MetadataCatalog</b></li> <li>▪ <b>Model</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	One or more <b>MetadataObjects</b> specified by the <b>MetadataModel</b> do not exist in the metadata store. <a href="#">&lt;101&gt;</a>
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> does not conform to [MS-BDCMFFS] section 2.2. <a href="#">&lt;102&gt;</a></li> <li>▪ One or more <b>MetadataObjects</b> specified by the <b>MetadataModel</b> do not exist in the metadata store.</li> <li>▪ The "Model" value is specified in the <b>packageContents</b> element.</li> </ul>

### 3.1.4.94.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage</b>	The request WSDL message for the <b>MetadataObjectMergeXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectMergeXml WSDL operation</b> .

#### 3.1.4.94.1.1 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.

### 3.1.4.94.1.2 BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage

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

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

#### 3.1.4.94.2 Elements

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

Element	Description
<b>MetadataObjectMergeXml</b>	The input data for the <b>MetadataObjectMergeXml WSDL operation</b> .
<b>MetadataObjectMergeXmlResponse</b>	The result data for the <b>MetadataObjectMergeXml WSDL operation</b> .

#### 3.1.4.94.2.1 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="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>
```

**xml:** The **XML** representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#) section 2.2.

**packageContents:** Specifies the parts of the **MetadataModel** to be merged into the existing **MetadataObjects**. The protocol server MUST follow 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**, then the protocol server MUST remove the already existing Property and then 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**, then 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**, then the protocol server **MUST** remove the already existing localized name and then 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** then 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 **MetadataModel** specifies **ACEs** for a **MetadataObject** for the specified **Setting**, protocol server **MUST** remove any of the existing ACEs for the specified **MetadataObject** for the specified **Setting**, and then 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 **MetadataObject** that contains the **MetadataObject** specified by the **MetadataModel**.

**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
<b>Action</b>	<b>ActionStruct</b> (section <a href="#">2.2.4.5</a> )
<b>ActionParameter</b>	<b>ActionParameterStruct</b> (section <a href="#">2.2.4.4</a> )
<b>Association</b>	<b>AssociationStruct</b> (section <a href="#">2.2.4.23</a> )
<b>AssociationGroup</b>	<b>AssociationGroupStruct</b> (section <a href="#">2.2.4.21</a> )
<b>Entity</b>	<b>EntityStruct</b> (section <a href="#">2.2.4.31</a> )
<b>FilterDescriptor</b>	<b>FilterDescriptorStruct</b> (section <a href="#">2.2.4.34</a> )
<b>Identifier</b>	<b>IdentifierStruct</b> (section <a href="#">2.2.4.35</a> )
<b>LobSystem</b>	<b>LobSystemStruct</b> (section <a href="#">2.2.4.40</a> )
<b>LobSystemInstance</b>	<b>LobSystemInstanceStruct</b> (section <a href="#">2.2.4.39</a> )
<b>Method</b>	<b>MethodStruct</b> (section <a href="#">2.2.4.47</a> )
<b>MethodInstance</b>	<b>MethodInstanceStruct</b> (section <a href="#">2.2.4.45</a> )

Root element name	Complex type
<b>Model</b>	<b>ModelStruct</b> (section 2.2.4.47)
<b>Parameter</b>	<b>ParameterStruct</b> (section <a href="#">2.2.4.49</a> )

**settingId:** The Setting to merge the **Properties, localized names** and ACEs. If the value is NULL, then protocol server MUST use the default Setting while 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.

### 3.1.4.94.2.2 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>
```

**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.

### 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 MetadataObjectReadXml

This operation is used to create **MetadataObjects** in the **metadata store**, optionally along with their **Properties**, **localized names**, and **ACEs**, contained by the specified **MetadataModel**. This operation creates **Properties**, localized names, and ACEs for default **Setting**. 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:

- **Action** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.3.
- **ActionParameter** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.4.
- **Association** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.7.
- **AssociationGroup** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.8.
- **Entity** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.16.
- **Identifier** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.19.
- **FilterDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.17.
- **LobSystem** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23.
- **LobSystemInstance** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.24.
- **Method** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.30.
- **MethodInstance** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.31.
- **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 one of the conditions in the following table is met.

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 the 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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The <b>xml</b> element specifies an <b>LobSystem</b> and the <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> element.</li> <li>The <b>xml</b> element specifies an <b>LobSystemInstance</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>LobSystem</b> specified by the <b>parentStruct</b> element.</li> <li>The <b>xml</b> element specifies an <b>Entity</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>LobSystem</b> specified by the</li> </ul>

Error complex type	Condition
	<p><b>parentStruct</b> element.</p> <ul style="list-style-type: none"> <li>▪ The <b>xml</b> element specifies an <b>Identifier</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an <b>Action</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> that contains the <b>Action</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies a <b>Method</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified</li> </ul>



Error complex type	Condition
	<p>by the <b>parentStruct</b> element.</p> <ul style="list-style-type: none"> <li>▪ The <b>xml</b> element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an <b>Association</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> </ul>
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ "Model" value is not specified in the <b>packageContents</b> element.</li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified MetadataModel contains an <b>LoSystem</b> with an associated <b>Business Logic Module</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one FilterDescriptor of type <b>TimeStampFilter</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>Parameter</b> with the <b>Direction</b> attribute set to "Return".</li> <li>▪ The specified <b>MetadataModel</b> contains an <b>Association</b> which references the same <b>Entity</b> more than once as a source of the <b>Association</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> that specifies <b>ReturnTypeDescriptor</b> that contains other</li> </ul>

Error complex type	Condition
	<p><b>TypeDescriptors.</b></p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnPropertyDescriptor</b> of this <b>MethodInstance</b> contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>JobSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</li> <li>▪ The specified <b>MetadataModel</b> contains <b>MethodInstance</b>, and the <b>Method</b> for which this <b>MethodInstance</b> is being created does not have a Parameter whose <b>Direction</b> is "In" or "InOut" and the type of the this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptor Accessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this</li> </ul>

Error complex type	Condition
	<p><b>MethodInstance</b> is not contain a TimeStampFilter and the type of this <b>MethodInstance</b> is one of the following values:</p> <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul>
<p><b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> represents a <b>Model</b> or a <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataModel</b> does not conform to the format specified in [MS-BDCMFFS].</li> <li>▪ One or more of the <b>TypeDescriptors</b> are specified in the <b>MetadataModel</b> have <b>DefaultValues</b>, but the <b>Method</b> that contains the Parameter that contains these <b>TypeDescriptors</b>, do not contain the <b>MethodInstance</b> specified by these <b>DefaultValues</b>.</li> </ul>
<p><b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a>)</p>	<p>The specified <b>MetadataModel</b> represents an <b>LobSystem</b>, and another <b>LobSystem</b> with the same name and different type already exists in the metadata store.</p>
<p><b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a>)</p>	<p>The specified <b>MetadataModel</b> contains a <b>MetadataObject</b> that contains more objects of a type than the implementation-specific maximum number of that type of objects. <b>MetadataObjects</b>, <b>Properties</b>, localized names, &lt;103&gt; 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 <b>Entity</b> contains more <b>Methods</b> than the implementation-specific maximum number of <b>Methods</b> allowed per <b>Entity</b>.</p>
<p><b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a>)</p>	<p>One of the following conditions</p>

Error complex type	Condition
	<p>applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that contain an ACE which specify <b>anonymous user</b> to have permissions other than "Execute", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObject</b> elements that does not contain an ACE that is set to "SetPermissions", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The creation of the <b>MetadataObjects</b> in the specified <b>MetadataModel</b> cannot be because <b>MetadataObjects</b> are missing in the metadata store.
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ One or more <b>Entities</b> in the specified <b>MetadataModel</b> already exist on a different</li> </ul>

Error complex type	Condition
	<p><b>LobSystem.</b></p> <ul style="list-style-type: none"> <li>The protocol server cannot find the Parameter that contains the ReturnPropertyDescriptor associated with one of the <b>MethodInstances</b> contained by the specified <b>MetadataModel</b>.</li> </ul>

### 3.1.4.95.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage</b>	The request WSDL message for the <b>MetadataObjectReadXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectReadXml WSDL operation</b> .

#### 3.1.4.95.1.1 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.

#### 3.1.4.95.1.2 BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage

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

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

### 3.1.4.95.2 Elements

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

Element	Description
<b>MetadataObjectReadXml</b>	The input data for the <b>MetadataObjectReadXml WSDL operation</b> .
<b>MetadataObjectReadXmlResponse</b>	The result data for the <b>MetadataObjectReadXml</b> WSDL operation.

### 3.1.4.95.2.1 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 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**.

**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
<b>Action</b>	<b>ActionStruct</b> (section <a href="#">2.2.4.5</a> )
<b>ActionParameter</b>	<b>ActionParameterStruct</b> (section <a href="#">2.2.4.4</a> )
<b>Association</b>	<b>AssociationStruct</b> (section <a href="#">2.2.4.23</a> )
<b>AssociationGroup</b>	<b>AssociationGroupStruct</b> (section <a href="#">2.2.4.21</a> )
<b>Entity</b>	<b>EntityStruct</b> (section <a href="#">2.2.4.31</a> )
<b>FilterDescriptor</b>	<b>FilterDescriptorStruct</b> (section <a href="#">2.2.4.34</a> )
<b>Identifier</b>	<b>IdentifierStruct</b> (section <a href="#">2.2.4.35</a> )
<b>LobSystem</b>	<b>LobSystemStruct</b> (section <a href="#">2.2.4.40</a> )
<b>LobSystemInstance</b>	<b>LobSystemInstanceStruct</b> (section <a href="#">2.2.4.39</a> )
<b>Method</b>	<b>MethodStruct</b> (section <a href="#">2.2.4.46</a> )
<b>MethodInstance</b>	<b>MethodInstanceStruct</b> (section <a href="#">2.2.4.45</a> )
<b>Parameter</b>	<b>ParameterStruct</b> (section <a href="#">2.2.4.49</a> )

**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.

### 3.1.4.95.2 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**.

### 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 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 the "Model" value is specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

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 specified **MetadataModel** contains **LogSystems** that the **security principal (2)** in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LogSystems**, 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_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/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_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/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 one of the conditions in the following table is met.

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 the 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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> and the <b>MetadataObject</b> is an <b>LobSystem</b> or an <b>LobSystemInstance</b>.</li> <li>▪ The security</li> </ul>

Error complex type	Condition
	principal (2) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> and the "Permissions" flag is set in <b>packageContents</b> element.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The "InlineProxies" value requires the "Model" value to be also specified for the <b>packageContents</b> element.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	One or more <b>MetadataObjects</b> required for the operation does not exist. <a href="#">&lt;104&gt;</a>

### 3.1.4.96.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage</b>	The request WSDL message for the <b>MetadataObjectWriteXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectWriteXml WSDL operation</b> .

#### 3.1.4.96.1.1 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.

### 3.1.4.96.1.2 BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage

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

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

### 3.1.4.96.2 Elements

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

Element	Description
<b>MetadataObjectWriteXml</b>	The input data for the <b>MetadataObjectWriteXml WSDL operation</b> .
<b>MetadataObjectWriteXmlResponse</b>	The result data for the <b>MetadataObjectWriteXml WSDL operation</b> .

#### 3.1.4.96.2.1 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.

**packageContents:** Specifies what kind of data to retrieve for the specified **MetadataObject**. The protocol server MUST follow 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, then 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 then 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 if the "Model" value is also specified, then 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** from 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.

### 3.1.4.96.2.2 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
<b>ActionParameterStruct</b> (section <a href="#">2.2.4.4</a> )	If the <b>packageContents</b> element is set to "Model", the <b>ActionParameter</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.4. Otherwise, the <b>ActionParameter</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.4.
<b>ActionStruct</b> (section <a href="#">2.2.4.5</a> )	If the <b>packageContents</b> element is set to "Model", the <b>Action</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.3. Otherwise, the <b>Action</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.3.
<b>AssociationGroupStruct</b> (section <a href="#">2.2.4.21</a> )	If the <b>packageContents</b> element is set to "Model", the <b>AssociationGroup</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.8. Otherwise, the <b>AssociationGroup</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.8.
<b>AssociationStruct</b> (section <a href="#">2.2.4.23</a> )	If the <b>packageContents</b> element is set to "Model", the <b>Association</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.7. Otherwise, the <b>Association</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.7.
<b>EntityStruct</b> (section <a href="#">2.2.4.31</a> )	If the <b>packageContents</b> element is set to "Model", the <b>Entity</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section

Complex type	Root element
	2.1.3.16. Otherwise, the <b>Entity</b> element as specified in [MS-BDCMFFS] section 2.2.3.11.
<b>FilterDescriptorStruct</b> (section <a href="#">2.2.4.34</a> )	If the <b>packageContents</b> element is set to "Model", the <b>FilterDescriptor</b> element as specified in [MS-BDCMFFS] section 2.1.3.17. Otherwise, the <b>FilterDescriptor</b> element as specified in [MS-BDCMFFS] section 2.2.3.12.
<b>IdentifierStruct</b> (section <a href="#">2.2.4.35</a> )	If the <b>packageContents</b> element is set to "Model", the <b>Identifier</b> element as specified in [MS-BDCMFFS] section 2.1.3.19. Otherwise, the <b>Identifier</b> element as specified in [MS-BDCMFFS] section 2.2.3.14.
<b>LobSystemStruct</b> (section <a href="#">2.2.4.40</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>LobSystem</b> element as specified in [MS-BDCMFFS] section 2.1.3.23. Otherwise, the <b>LobSystem</b> element as specified in [MS-BDCMFFS] section 2.2.3.17.
<b>LobSystemInstanceStruct</b> (section <a href="#">2.2.4.39</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>LobSystemInstance</b> element as specified in [MS-BDCMFFS] section 2.1.3.24. Otherwise, the <b>LobSystemInstance</b> element as specified in [MS-BDCMFFS] section 2.2.3.18.
<b>MethodStruct</b> (section <a href="#">2.2.4.46</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>Method</b> element as specified in [MS-BDCMFFS] section 2.1.3.30. Otherwise, the <b>Method</b> element as specified in [MS-BDCMFFS] section 2.2.3.24.
<b>MethodInstanceStruct</b> (section <a href="#">2.2.4.45</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>MethodInstance</b> element as specified in [MS-BDCMFFS] section 2.1.3.31. Otherwise, the <b>MethodInstance</b> element as specified in [MS-BDCMFFS] section 2.2.3.25.
<b>ModelStruct</b> (section <a href="#">2.2.4.47</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>Model</b> element as specified in [MS-BDCMFFS] section 2.1.3.34. Otherwise, the <b>Model</b> element as specified in [MS-BDCMFFS] section 2.2.3.28.
<b>ParameterStruct</b> (section <a href="#">2.2.4.49</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>Parameter</b> element as specified in [MS-BDCMFFS] section 2.1.3.37. Otherwise, the <b>Parameter</b> element as specified in [MS-BDCMFFS] section 2.2.3.29.
<b>TypeDescriptorStruct</b> (section <a href="#">2.2.4.53</a> )	If the "Model" value of <b>packageContents</b> is specified, the <b>TypeDescriptor</b> element as specified in [MS-BDCMFFS] section 2.1.3.43. Otherwise, the <b>TypeDescriptor</b> element as specified in [MS-BDCMFFS] section 2.2.3.34. <a href="#">&lt;105&gt;</a>

### 3.1.4.96.3 Complex Types

None.

### 3.1.4.96.4 Simple Types

None.



```

edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService ModelReadXml 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/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_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/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_F
aultMessage" 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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>MetadataCatalog</b> .
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is not specified in the <b>packageContents</b> element.</li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> with invalid attributes. <a href="#">&lt;106&gt;</a></li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified <b>MetadataModel</b> contains <b>LOBSystem</b> with an associated <b>Business Logic Module</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>TimeStampFilter</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>Parameter</b> with direction "Return".</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> that specifies <b>ReturnTypeDescriptor</b> that contains other <b>TypeDescriptors</b>.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the</li> </ul>

Error complex type	Condition
	<p>specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnPropertyDescriptor</b> of this <b>MethodInstance</b> contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LOBSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains <b>MethodInstance</b>, and the <b>Method</b> for which this <b>MethodInstance</b> is being created does not have a Parameter whose <b>Direction</b> is "In" or "InOut" and the type of the this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a <b>TimeStampFilter</b> and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> </ul>



Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains an <b>Association</b> which specifies an Entity as a source more than once.</li> </ul>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified MetadataCatalog is 0.
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The value of the <b>updateModel</b> element is FALSE, and there is already another <b>Model</b> with the same name as the <b>Model</b> contained by the <b>MetadataModel</b> contained by the specified <b>MetadataCatalog</b>.</li> <li>▪ The specified <b>MetadataModel</b> represents an <b>LobSystem</b>, but an <b>LobSystem</b> with the same name and different <b>SystemType</b> value already exists in the metadata store.</li> </ul>
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>MetadataModel</b> contains a <b>MetadataObject</b> that contains more objects of a type than the implementation-specific maximum number of that type of objects. <b>MetadataObjects</b> , <b>Properties</b> , localized names<107> 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 <b>Entity</b> contains more <b>Methods</b> than the implementation-specific maximum number of <b>Methods</b> allowed per <b>Entity</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that contain an ACE which specify <b>anonymous user</b> to have permissions other than "Execute", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObject</b> elements that does not contain an ACE that is set to "SetPermissions", the</li> </ul>

Error complex type	Condition
	<p><b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following:</p> <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The value of the <b>updateModel</b> element is <b>true</b> and the specified <b>MetadataCatalog</b> does not contain the <b>Model</b> contained by the <b>MetadataModel</b> .
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified XML does not conform to the format specified in [MS-BDCMFFS].&lt;<a href="#">108</a>&gt;</li> <li>▪ One of the <b>Entities</b> contained by the <b>MetadataModel</b> has the same name, namespace and version as an <b>Entity</b> in the metadata store, but the names of the <b>LobSystems</b> that contain these <b>Entities</b> are not identical.</li> </ul>

### 3.1.4.97.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ModelReadXml_InputMessage</b>	The request WSDL message for the <b>ModelReadXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ModelReadXml_OutputMessage</b>	The response WSDL message for the <b>ModelReadXml</b> WSDL operation.

#### 3.1.4.97.1.1 BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage

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

The **SOAP action** value is:

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

### 3.1.4.97.1.2 BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage

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

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

### 3.1.4.97.2 Elements

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

Element	Description
<b>ModelReadXml</b>	The input data for the <b>ModelReadXml WSDL operation</b> .
<b>ModelReadXmlResponse</b>	The result data for the <b>ModelReadXml WSDL operation</b> .

#### 3.1.4.97.2.1 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 [\[MS-BDCMFFS\]](#).

**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 **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**.

**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.

**updateModel:** Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **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**.

### 3.1.4.97.2.2 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 is corresponding 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.

### 3.1.4.97.3 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 ReadSlicedXml

This operation is deprecated from the protocol and MUST NOT be called.

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:fault>
</wsdl:operation>
```

```

name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

### 3.1.4.98.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage</b>	The request WSDL message for the <b>ReadSlicedXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage</b>	The response WSDL message for the <b>ReadSlicedXml WSDL operation</b> .

#### 3.1.4.98.1.1 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.

#### 3.1.4.98.1.2 BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage

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

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

### 3.1.4.98.2 Elements

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

Element	Description
<b>ReadSlicedXml</b>	The input data for the <b>ReadSlicedXml WSDL operation</b> .
<b>ReadSlicedXmlResponse</b>	The result data for the <b>ReadSlicedXml WSDL operation</b> .

#### 3.1.4.98.2.1 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:** Deprecated.

**packageContents:** Deprecated.

**parentStruct:** Deprecated.

**readStruct:** Deprecated.

**callerCultureLcid:** Deprecated.

### 3.1.4.98.2.2 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:** Deprecated.

**readStruct:** Deprecated.

### 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 RemoveEntityFromModel

This operation is used to remove 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/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_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 one of the conditions in the following table is met.



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 at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to remove the reference from the specified <b>Model</b> to the specified Entity.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Entity</b> is not referenced by the specified <b>Model</b> .

### 3.1.4.99.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage</b>	The request WSDL message for the <b>RemoveEntityFromModel WSDL operation</b> .
<b>BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage</b>	The response WSDL message for the <b>RemoveEntityFromModel WSDL operation</b> .

#### 3.1.4.99.1.1 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.

#### 3.1.4.99.1.2 BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage

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

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

### 3.1.4.99.2 Elements

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

Element	Description
<b>RemoveEntityFromModel</b>	The input data for the <b>RemoveEntityFromModel WSDL operation</b> .
<b>RemoveEntityFromModelResponse</b>	The result data for the <b>RemoveEntityFromModel WSDL operation</b> .

#### 3.1.4.99.2.1 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**.

**entityStruct:** The **Entity**.

#### 3.1.4.99.2.2 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>
```

### 3.1.4.99.3 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 RemoveLocalizedName

This operation is used to remove 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/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.
<b>InvalidOperationException</b> (section 2.2.4.38)	The localized name for the specified LCID does not exist in the specified <b>Setting</b> for the specified <b>MetadataObject</b> .

### 3.1.4.100.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage</b>	The request WSDL message for the <b>RemoveLocalizedName WSDL operation</b> .
<b>BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage</b>	The response WSDL message for the <b>RemoveLocalizedName WSDL operation</b> .

#### 3.1.4.100.1.1 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.

#### 3.1.4.100.1.2 BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage

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

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

### 3.1.4.100.2 Elements

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

Element	Description
<b>RemoveLocalizedName</b>	The input data for the <b>RemoveLocalizedName WSDL operation</b> .
<b>RemoveLocalizedNameResponse</b>	The result data for the <b>RemoveLocalizedName WSDL operation</b> .

#### 3.1.4.100.2.1 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**.

**lcid:** The **LCID** of the **localized name** to be removed.

**settingId:** The **Setting** to remove the localized name from.

#### 3.1.4.100.2.2 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>
```

#### 3.1.4.100.3 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 RemoveProperty

This operation is used to remove 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 one of the conditions in the following table is met.

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.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>ArgumentException</b> (section 2.2.4.7)	The <b>name</b> element is empty or NULL.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.101.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_RemoveProperty_InputMessage</b>	The request WSDL message for the <b>RemoveProperty WSDL operation</b> .
<b>BusinessDataCatalogSharedService_RemoveProperty_OutputMessage</b>	The response WSDL message for the <b>RemoveProperty WSDL operation</b> .

#### 3.1.4.101.1.1 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.

#### 3.1.4.101.1.2 BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage

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

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

### 3.1.4.101.2 Elements

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

Element	Description
<b>RemoveProperty</b>	The input data for the <b>RemoveProperty WSDL operation</b> .
<b>RemovePropertyResponse</b>	The result data for the <b>RemoveProperty WSDL operation</b> .

#### 3.1.4.101.2.1 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>
```

**metadataObjectStruct:** The **MetadataObject**.

**name:** The name of the **Property** to be deleted.

**settingId:** The **Setting** from which to delete the **Property**.

#### 3.1.4.101.2.2 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>
```

#### 3.1.4.101.3 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 SaveLocalizedName

This operation is used to add or replace a **localized name** for the specified **MetadataObject**. If a localized name with the same **LCID** as the specified LCID 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMessage"
    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 one of the conditions in the following table is met.

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.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>InvalidOperationException</b> (section 2.2.4.38)	The specified <b>MetadataObject</b> already contains the implementation-specific maximum number of localized names.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.102.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage</b>	The request WSDL message for the <b>SaveLocalizedName WSDL operation</b> .
<b>BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage</b>	The response WSDL message for the <b>SaveLocalizedName WSDL operation</b> .

#### 3.1.4.102.1.1 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.

#### 3.1.4.102.1.2 BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage

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

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

### 3.1.4.102.2 Elements

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

Element	Description
<b>SaveLocalizedName</b>	The input data for the <b>SaveLocalizedName WSDL operation</b> .
<b>SaveLocalizedNameResponse</b>	The result data for the <b>SaveLocalizedName WSDL operation</b> .

#### 3.1.4.102.2.1 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**.

**lcid:** The **LCID** of the localized name to be saved.

**name:** The localized name of the **MetadataObject**.

**settingId:** The **Setting** to write the localized name to.

#### 3.1.4.102.2.2 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>
```

#### 3.1.4.102.3 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 SaveProperty

This operation is used to add or replace a **Property** for the specified **MetadataObject**. If a **Property** with the same name as the specified **Property** already exists 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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>MetadataObject</b> already contains the implementation-specific maximum number of <b>Properties</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> 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
<b>BusinessDataCatalogSharedService_SaveProperty_InputMessage</b>	The request WSDL message for the <b>SaveProperty WSDL operation</b> .
<b>BusinessDataCatalogSharedService_SaveProperty_OutputMessage</b>	The response WSDL message for the <b>SaveProperty WSDL operation</b> .

#### 3.1.4.103.1.1 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.

### 3.1.4.103.1.2 BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage

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

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

#### 3.1.4.103.2 Elements

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

Element	Description
<b>SaveProperty</b>	The input data for the <b>SaveProperty WSDL operation</b> .
<b>SavePropertyResponse</b>	The result data for the <b>SaveProperty WSDL operation</b> .

##### 3.1.4.103.2.1 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**.

**propertyStruct:** The **Property** to be saved.

##### 3.1.4.103.2.2 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>
```

#### 3.1.4.103.3 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 SetAccessControlEntries

This operation is used to set an **access control list (ACL)** to the specified **MetadataObject**. The protocol server **MUST** delete all **ACEs** of the specified **MetadataObject** for the specified **Setting**, and then adds the specified ACEs to the specified **MetadataObject**.

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/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_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 one of the conditions in the following table is met.

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 at exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> for the specified <b>MetadataObject</b> is set to zero.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions applies: <ul style="list-style-type: none"><li>At least one of the specified ACEs contains an invalid value for <b>principalName</b> element.</li><li>The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify <b>anonymous user</b> to have permissions other than "Execute".</li></ul>

### 3.1.4.104.1 Messages

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



Message	Description
<b>BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage</b>	The request WSDL message for the <b>SetAccessControlEntries WSDL operation</b> .
<b>BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage</b>	The response WSDL message for the <b>SetAccessControlEntries WSDL operation</b> .

### 3.1.4.104.1.1 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.

### 3.1.4.104.1.2 BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage

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

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

### 3.1.4.104.2 Elements

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

Element	Description
<b>SetAccessControlEntries</b>	The input data for the <b>SetAccessControlEntries WSDL operation</b> .
<b>SetAccessControlEntriesResponse</b>	The result data for the <b>SetAccessControlEntries WSDL operation</b> .

### 3.1.4.104.2.1 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 **MetadataObject** MUST be of one of the following types:

- **MetadataCatalog**
- **Model**
- **LobSystem**
- **Entity**
- **Method**
- **MethodInstance**

**accessControlEntries:** The **ACEs**.

**settingId:** The **Setting** to write the ACEs to.

### 3.1.4.104.2 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>
```

### 3.1.4.104.3 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 SetDefaultActionForEntity

This operation is used to set 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>Entity</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>Entity</b> does not exist or does not contain an <b>Action</b> with the specified name.

### 3.1.4.105.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage</b>	The request WSDL message for the <b>SetDefaultActionForEntity WSDL operation</b> .
<b>BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage</b>	The response WSDL message for the <b>SetDefaultActionForEntity WSDL operation</b> .

#### 3.1.4.105.1.1 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.

#### 3.1.4.105.1.2 BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage

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

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

### 3.1.4.105.2 Elements

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

Element	Description
<b>SetDefaultActionForEntity</b>	The input data for the <b>SetDefaultActionForEntity WSDL operation</b> .
<b>SetDefaultActionForEntityResponse</b>	The result data for the <b>SetDefaultActionForEntity WSDL operation</b> .

### 3.1.4.105.2.1 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** will be set.

**actionName:** The name of the Action to be set as default Action to the specified Entity.

**partitionId:** The **empty GUID**.

### 3.1.4.105.2.2 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>
```

### 3.1.4.105.3 Complex Types

None.

### 3.1.4.105.4 Simple Types

None.

### 3.1.4.105.5 Attributes

None.



```

message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl1"/>
</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 one of the conditions in the following table is met.

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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>Method</b> containing the <b>Parameter</b> containing the specified <b>TypeDescriptor</b> .
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The specified <b>DefaultValue</b> is invalid.
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>TypeDescriptor</b> already contains the implementation-specific maximum number of <b>DefaultValues</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>TypeDescriptor</b> 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
<b>BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>SetDefaultValuesForTypeDescriptor WSDL operation</b> .
<b>BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>SetDefaultValuesForTypeDescriptor WSDL operation</b> .

### 3.1.4.106.1.1 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.

### 3.1.4.106.1.2 BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage

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

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

### 3.1.4.106.2 Elements

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

Element	Description
<b>SetDefaultValuesForTypeDescriptor</b>	The input data for the <b>SetDefaultValuesForTypeDescriptor WSDL operation</b> .
<b>SetDefaultValuesForTypeDescriptorResponse</b>	The result data for the <b>SetDefaultValuesForTypeDescriptor WSDL operation</b> .

### 3.1.4.106.2.1 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** .

**partitionId:** An **empty GUID**.

### 3.1.4.106.2.2 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>
```

### 3.1.4.106.3 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 SetLobSystemDataByLobSystemId

This operation is deprecated from the protocol and MUST NOT be called.

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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_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/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_InvalidOperationE
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/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataException
StateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

### 3.1.4.107.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage</b>	The request WSDL message for the <b>SetLobSystemDataByLobSystemId WSDL operation</b> .
<b>BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage</b>	The response WSDL message for the <b>SetLobSystemDataByLobSystemId WSDL operation</b> .

#### 3.1.4.107.1.1 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/Set
LobSystemDataByLobSystemId

```

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

#### 3.1.4.107.1.2 BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage

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

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

### 3.1.4.107.2 Elements

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

Element	Description
<b>SetLobSystemDataByLobSystemId</b>	The input data for the <b>SetLobSystemDataByLobSystemId WSDL operation</b> .
<b>SetLobSystemDataByLobSystemIdResponse</b>	The result data for the <b>SetLobSystemDataByLobSystemId WSDL operation</b> .

#### 3.1.4.107.2.1 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:** Deprecated.

**proxyGenerationResult:** Deprecated.

**partitionId:** Deprecated.

#### 3.1.4.107.2.2 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>
```

### 3.1.4.107.3 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 TypeDescriptorCreate

This operation is used to create 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 one of the conditions in the following table is met.

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.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>Method</b> containing the <b>Parameter</b> specified by <b>parameterStruct</b> element.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>TypeDescriptor</b> specified by <b>rawValues</b> element and the <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element are contained by different <b>Parameters</b>.</li> <li>▪ The data type referenced by the <b>typeName</b> element of the specified <b>TypeDescriptor</b> 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.</li> <li>▪ The <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element is NULL and the <b>Parameter</b> has another <b>root TypeDescriptor</b>.</li> <li>▪ The <b>TypeDescriptor</b> and the parent <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element have the <b>IsCollection</b> flag set.</li> <li>▪ The <b>TypeDescriptor</b> is associated with a <b>FilterDescriptor</b> and the <b>FilterDescriptor</b> is not contained by the Method that contains the <b>Parameter</b> specified by <b>parameterStruct</b> element.</li> <li>▪ The <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element has "IsCollection" flag set and already contains another <b>TypeDescriptor</b>.</li> <li>▪ The <b>TypeDescriptor</b> is has "read-only" flag set, and the Direction attribute of the <b>Parameter</b> is set to "In".</li> </ul>
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	The <b>TypeDescriptor</b> specified by the <b>parentStruct</b> element already contains another <b>TypeDescriptor</b> that has the same name.
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	One of the following conditions applies:

Error complex type	Condition
	<ul style="list-style-type: none"> <li>The <b>TypeDescriptor</b> specified by the <b>parentTypeDescriptorStruct</b> element already contains an implementation-specific maximum number of <b>TypeDescriptors</b>.</li> <li>The metadata store already contains an implementation-specific maximum number of <b>TypeDescriptors</b> associated with the <b>FilterDescriptor</b> referenced by the specified <b>TypeDescriptor</b>.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The <b>Parameter</b> specified by the <b>parameterStruct</b> element is contained by an active <b>Entity</b> . <a href="#">&lt;109&gt;</a>

### 3.1.4.108.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage</b>	The request WSDL message for the <b>TypeDescriptorCreate WSDL operation</b> .
<b>BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage</b>	The response WSDL message for the <b>TypeDescriptorCreate WSDL operation</b> .

#### 3.1.4.108.1.1 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.

#### 3.1.4.108.1.2 BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage

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

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

### 3.1.4.108.2 Elements

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

Element	Description
<b>TypeDescriptorCreate</b>	The input data for the <b>TypeDescriptorCreate WSDL operation</b> .
<b>TypeDescriptorCreateResponse</b>	The result data for the <b>TypeDescriptorCreate WSDL operation</b> .

### 3.1.4.108.2.1 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: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 protocol client MUST specify values for all the elements in this complex type.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** to create. 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.

### 3.1.4.108.2.2 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**.

### 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 TypeDescriptorMergeXml

This operation is used to merge 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 according to [\[XML\]](#) 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/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_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/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml PackageFormatExceptionSt
ateFault 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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to edit the <b>Method</b> containing the specified <b>Parameter</b> .
<b>ArgumentException</b> (section 2.2.4.7)	The "Model" value is specified in the <b>packageContents</b> element.
<b>ExceededMetadataObjectLimitExceptionState</b> (section 2.2.4.32)	The specified <b>MetadataModel</b> contains one or more <b>TypeDescriptors</b> that already contain the implementation-specific maximum number of <b>Properties</b> and the <b>packageContents</b> element has "Properties" set in its value.
<b>InvalidOperationException</b> (section 2.2.4.38)	The specified <b>MetadataModel</b> specifies one or more <b>TypeDescriptors</b> that already contain the implementation-specific maximum number of localized names and the <b>packageContents</b> element has "LocalizedNames" in its value.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified <b>Parameter</b> or the specified <b>TypeDescriptor</b> could not be found.</li> <li>The specified <b>TypeDescriptor</b></li> </ul>

Error complex type	Condition
	could not be found.
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	The <b>TypeDescriptor</b> specified in the <b>MetadataModel</b> does not exist in the specified <b>TypeDescriptor</b> or the specified <b>Parameter</b> if a <b>TypeDescriptor</b> is not specified.

### 3.1.4.109.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage</b>	The request WSDL message for the <b>TypeDescriptorMergeXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage</b>	The response WSDL message for the <b>TypeDescriptorMergeXml WSDL operation</b> .

#### 3.1.4.109.1.1 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.

#### 3.1.4.109.1.2 BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage

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

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

### 3.1.4.109.2 Elements

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

Element	Description
<b>TypeDescriptorMergeXml</b>	The input data for the <b>TypeDescriptorMergeXml</b> WSDL operation.
<b>TypeDescriptorMergeXmlResponse</b>	The result data for the <b>TypeDescriptorMergeXml</b> WSDL operation.

### 3.1.4.109.2.1 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 [\[MS-BDCMFFS\]](#) section 2.2.3.34.

**packgeContents:** Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server MUST follow 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 as the **Property** specified in the **MetadataModel** already exists for the specified **TypeDescriptor**, then the protocol server MUST remove the already existing Property and then 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**, then 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**, then the protocol server MUST remove the already existing localized name and then 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** then 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** containing the **TypeDescriptor** that is updated.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** specified by the XML. This **TypeDescriptor** MUST be NULL if the **TypeDescriptor** specified by the XML is a **root TypeDescriptor**.

**settingId:** The **Setting** to merge the **Properties** and localized names. If the value is NULL, then protocol server MUST use the default **Setting** while performing the operation.

**callerCultureLcid:** This value MUST be ignored by the protocol server.

### 3.1.4.109.2 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.

**errors:** List of implementation-specific error messages that occurred while performing this operation.

### 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 TypeDescriptorReadXml

This operation is used to create 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 according to [\[XML\]](#) 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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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/BusinessDataCatalogSharedService/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 one of the conditions in the following table is met.

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

**Complex Types** (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
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the <b>Method</b> containing the specified <b>Parameter</b> .
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The "Model" value is not specified in the <b>packageContents</b> element.</li> <li>▪ The data type referenced by a <b>TypeDescriptor</b> contained by the <b>MetadataModel</b> 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.</li> <li>▪ The <b>MetadataModel</b> contains a <b>TypeDescriptor</b> that has "IsCollection" flag set and contains another <b>TypeDescriptor</b> that has "IsCollection" flag set.</li> <li>▪ The specified <b>TypeDescriptor</b> has "IsCollection" flag set and the <b>TypeDescriptor</b> which correspond to the specified</li> </ul>

Error Complex Type	Condition
	<p><b>MetadataModel</b> also has "IsCollection" flag set.</p> <ul style="list-style-type: none"> <li>▪ The specified <b>TypeDescriptor</b> has "IsCollection" flag set and already contains a <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>TypeDescriptor</b> is NULL and the specified <b>Parameter</b> already has a root <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>TypeDescriptor</b> is not contained by the specified <b>Parameter</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>TypeDescriptor</b> that has "ReadOnly" flag set and the specified <b>Parameter</b> has direction "In".</li> </ul>
<p><b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a>)</p>	<p>The specified <b>TypeDescriptor</b> already contains another <b>TypeDescriptor</b> with the same name as the <b>TypeDescriptor</b> which corresponds to the <b>MetadataModel</b>.</p>
<p><b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains a <b>TypeDescriptor</b></li> </ul>

Error Complex Type	Condition
	<p><b>r</b> that contains more <b>TypeDescriptors</b> than the implementation-specific maximum number of <b>TypeDescriptors</b>.</p> <ul style="list-style-type: none"> <li>The specified <b>TypeDescriptor</b> contains implementation-specific maximum number of <b>TypeDescriptors</b>.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The <b>Entity</b> containing the <b>Method</b> that contains the specified <b>Parameter</b> is active. <a href="#">&lt;110&gt;</a></li> <li>The specified <b>Parameter</b> does not exist.</li> </ul>
<b>MetadataObjectNotFoundExcepctionState</b> (section <a href="#">2.2.4.43</a> )	<p>The specified <b>TypeDescriptor</b> does not exist.</p>
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The specified XML does not conform to the format specified in [MS-BDCMFFS].</li> <li>The <b>Method</b> containing the specified <b>Parameter</b> does not contain the <b>FilterDescriptor</b> referenced by the specified <b>MetadataModel</b>.</li> </ul>



### 3.1.4.110.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage</b>	The request WSDL message for the <b>TypeDescriptorReadXml WSDL operation</b> .
<b>BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage</b>	The response WSDL message for the <b>TypeDescriptorReadXml WSDL operation</b> .

#### 3.1.4.110.1.1 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.

#### 3.1.4.110.1.2 BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage

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

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

### 3.1.4.110.2 Elements

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

Element	Description
<b>TypeDescriptorReadXml</b>	The input data for the <b>TypeDescriptorReadXml WSDL operation</b> .
<b>TypeDescriptorReadXmlResponse</b>	The result data for the <b>TypeDescriptorReadXml WSDL operation</b> .

#### 3.1.4.110.2.1 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 [\[MS-BDCMFFS\]](#) section 2.1.3.43.

**packageContents:** Specifies what parts 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**.

**parameterStruct:** The **Parameter** in which to create the **TypeDescriptors** contained by the **MetadataModel**.

**parentTypeDescriptorStruct:** The **TypeDescriptor** in which to create the **TypeDescriptors** contained by the **MetadataModel**. This value of this element **MUST** be NULL if the **MetadataModel** contains the **root TypeDescriptor** of the **Parameter**.

**callerCultureLcid:** This value **MUST** be ignored.

### 3.1.4.110.2.2TypeDescriptorReadXmlResponse

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**.

**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.

### 3.1.4.110.3 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 Update

This operation is used to update 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:operation>
```

```

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 one of the conditions in the following table is met.

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 **Complex Types** (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
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <b>security principal (2)</b> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified <b>MetadataObject</b> name is NULL or empty.</li> <li>The length of the specified <b>MetadataObject</b> name exceeds 255 characters.</li> </ul>
<b>ConcurrentModificationExceptionState</b> (section 2.2.4.27)	The specified <b>MetadataObject</b> 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 <b>MetadataObject</b> . For example, this error can be triggered when one context reads the given <b>MetadataObject</b> , after which another context updates the same <b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<b>DuplicateMetadataObjectExceptionState</b> (section 2.2.4.30)	The parent <b>MetadataObject</b> contains another <b>MetadataObject</b> with the same <b>MetadataObject</b> name.
<b>ExceededMetadataObjectLimitExceptionState</b> (section 2.2.4.32)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The parent of the specified <b>MetadataObject</b> already contains the implementation-specific maximum number of <b>MetadataObjects</b> of the same type as the specified <b>MetadataObject</b>.</li> <li>The specified <b>MetadataObject</b> is a <b>MethodInstance</b> and one of the following conditions holds true: <ul style="list-style-type: none"> <li>The type of the specified <b>MethodInstance</b> is <b>IdEnumerator</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the</li> </ul> </li> </ul>

Error complex type	Condition
	<p>type <b>IdEnumerator</b>.&lt;111&gt;</p> <ul style="list-style-type: none"> <li>▪ The type of the specified <b>MethodInstance</b> is <b>AccessChecker</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>AccessChecker</b>.&lt;112&gt;</li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>Deleter</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>Deleter</b>.&lt;113&gt;</li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>ChangedIdEnumerator</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>ChangedIdEnumerator</b>.&lt;114&gt;</li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>DeletedIdEnumerator</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>DeletedIdEnumerator</b>.&lt;115&gt;</li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>BulkIdEnumerator</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>BulkIdEnumerator</b>.&lt;116&gt;</li> </ul>
<p><b>InvalidMetadataObjectExceptionState</b> (section <a href="#">2.2.4.36</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataObject</b> is a <b>root TypeDescriptor</b>, and it is being updated to be part of a <b>Parameter</b> that already has a root <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>Parameter</b> of the specified <b>ReturnTypeDescriptor</b> is not contained by the same <b>Method</b> as the specified <b>Association</b> or <b>MethodInstance</b>.&lt;117&gt;</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the specified type for the <b>MethodInstance</b> requires a <b>Parameter</b> with <b>Direction</b> "In" or "InOut" to be present on the <b>Method</b> containing the specified <b>Association</b> or <b>MethodInstance</b>.&lt;118&gt; The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ SpecificFinder</li> <li>▪ AccessChecker</li> <li>▪ Updater</li> <li>▪ Deleter</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ Disassociator</li> <li>▪ StreamAccessor</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>Parameter</b> containing the specified <b>ReturnPropertyDescriptor</b> has the <b>Direction</b> attribute specified as "In". <a href="#">&lt;119&gt;</a></li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST be present for the specified type for the <b>MethodInstance</b>, however it is passed in as NULL or 0. <a href="#">&lt;120&gt;</a> The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ Scalar</li> <li>▪ SpecificFinder</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST have the "IsCollection" flag set for the specified type for the <b>MethodInstance</b>. The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ SpecificFinder</li> <li>▪ Scalar</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ Creator</li> <li>▪ StreamAccessor</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST have the "IsCollection" flag not set for the specified type for the <b>MethodInstance</b>. The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Finder</li> <li>▪ IdEnumerator</li> </ul> </li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST NOT contain any <b>TypeDescriptors</b> for <b>MethodInstance</b> of <b>StreamAccessor</b> type.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>MethodInstance</b> and the <b>TypeDescriptor</b> that contains the <b>ReturnPropertyDescriptor</b> MUST NOT contain any other <b>TypeDescriptors</b> for <b>MethodInstance</b> of <b>StreamAccessor</b> type and the type for the <b>LoSystem</b> containing the <b>Entity</b> containing <b>MethodInstance</b> of <b>StreamAccessor</b> type is <b>DataBase</b>.</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Entity</b> and the specified <b>CacheUsage</b>, <b>MajorVersion</b>, <b>MinorVersion</b>, <b>BuildVersion</b>, or <b>RevisionVersion</b> is invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the specified <b>Direction</b> is invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>MethodInstance</b> and the specified type is invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the specified flags are invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the <b>Method</b> that contains the specified <b>Parameter</b> already contains another <b>Parameter</b> with <b>Direction</b> "Return".</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>Parameter</b> containing the specified <b>TypeDescriptor</b> has value "In" for the <b>Direction</b> attribute, but the specified <b>TypeDescriptor</b> has the "Read-Only" flag set for its <b>TypeDescriptorFlags</b> attribute.</li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the specified <b>Parameter</b> is not allowed to have value "In" for the <b>Direction</b> attribute because one of the <b>TypeDescriptors</b> contained by the specified <b>Parameter</b> has the "Read-Only" flag set for its <b>TypeDescriptorFlags</b> attribute.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the specified <b>Parameter</b> is not allowed to have the value "In" for the <b>Direction</b> attribute because the specified <b>Parameter</b> contains a <b>ReturnTypeDescriptor</b> of a <b>MethodInstance</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b>, which has its <b>Parameter</b> is being changed to the specified <b>Parameter</b>, and the specified <b>Parameter</b> already has a root <b>TypeDescriptor</b>.&lt;121&gt;</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the "IsCollection" flag cannot be set on a <b>TypeDescriptor</b> if its containing <b>TypeDescriptor</b> also has "IsCollection" flag set.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and a <b>TypeDescriptor</b> with the "IsCollection" flag set can only contain one <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>FilterDescriptor</b> associated with the specified <b>TypeDescriptor</b> is not defined on the <b>Method</b> that contains the <b>Parameter</b> containing the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>Parameter</b> containing the containing <b>TypeDescriptor</b> is different from the <b>Parameter</b> containing the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>Parameter</b> containing the specified <b>TypeDescriptor</b> has a <b>TypeDescriptor</b> hierarchy deeper than an implementation-specific maximum allowed depth.</li> <li>▪ The specified <b>MetadataObject</b> is the <b>FilterDescriptor</b> and the <b>Method</b> associated with the specified <b>FilterDescriptor</b> already contains another <b>FilterDescriptor</b> of type <b>TimeStampFilter</b> and the specified <b>FilterDescriptor</b> is updated to be a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions applies:



Error complex type	Condition
	<ul style="list-style-type: none"> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> contained by an active <b>Entity</b>. &lt;122&gt;</li> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which has its name or namespace being updated, and another <b>Entity</b> with the specified name and namespace is currently being referenced by other <b>MetadataObjects</b>.</li> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is the <b>FilterDescriptor</b> and the <b>Method</b> that contains the specified <b>FilterDescriptor</b> also contains a <b>MethodInstance</b> of type <b>ChangedIdEnumerator</b> or a <b>DeletedIdEnumerator</b>, and the type of the <b>FilterDescriptor</b> is changed from <b>TimeStampFilter</b> to another type.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

Upon successful 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 0.

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
<b>Parameter</b>	<p>If the <b>ordinalNumber</b> attribute of the specified <b>Parameter</b> is the same as the <b>ordinalNumber</b> attribute of another <b>Parameter</b> contained by the <b>Method</b> containing the specified <b>Parameter</b>, the <b>ordinalNumber</b> attribute of <b>Parameters</b> contained by that <b>Method</b> that have the <b>ordinalNumber</b> attribute greater than or equal to the <b>ordinalNumber</b> attribute of the specified <b>Parameter</b> MUST be incremented.</p> <p>After the operation completes, all <b>Parameters</b> contained by the <b>Method</b> containing the specified <b>Parameter</b> MUST have <b>ordinalNumber</b> attributes in the range from zero to <math>n-1</math>, where <math>n</math> is the number of <b>Parameters</b> contained by that <b>Method</b>. <b>Parameters</b> not contained by the <b>Method</b>, which contains the specified <b>Parameter</b>, MUST NOT have their <b>ordinalNumber</b> attributes altered. &lt;123&gt;</p>
<b>MethodInstance</b>	<p>When the <b>isDefault</b> attribute of the specified <b>MethodInstance</b> is set to 1, the protocol server MUST set the <b>isDefault</b> attribute of all other <b>MethodInstances</b> that have the same value for the <b>MethodInstanceType</b> attribute within the containing</p>

MetadataObject	Action
	<b>DataClass</b> to 0. When the <b>isDefault</b> attribute of the specified <b>MethodInstance</b> is set to 0 (and it was previously set to 1), the protocol server <b>MUST</b> set the <b>IsDefault</b> attribute of a <b>MethodInstance</b> with the same value for <b>MethodInstanceType</b> within the containing <b>DataClass</b> to 1<124>. The protocol server <b>MUST</b> decide which <b>MethodInstance</b> to alter based on an implementation-specific algorithm.

### 3.1.4.111.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_Update_InputMessage</b>	The request WSDL message for the <b>Update WSDL operation</b> .
<b>BusinessDataCatalogSharedService_Update_OutputMessage</b>	The response WSDL message for the <b>Update</b> WSDL operation.

#### 3.1.4.111.1.1 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.

#### 3.1.4.111.1.2 BusinessDataCatalogSharedService\_Update\_OutputMessage

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

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

### 3.1.4.111.2 Elements

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

Element	Description
<b>Update</b>	The input data for the <b>Update WSDL operation</b> .
<b>UpdateResponse</b>	The result data for the <b>Update</b> WSDL operation.

### 3.1.4.111.2.1 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 [<125>](#). The **MetadataObjectId** 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**.

### 3.1.4.111.2.2 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**.

### 3.1.4.111.3 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 WriteSlicedXml

This operation is deprecated from the protocol and MUST NOT [<126>](#) be called.

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>

```



### 3.1.4.112.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage</b>	The request WSDL message for the <b>WriteSlicedXml WSDL</b>

Message	Description
	<b>operation.</b>
<b>BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage</b>	The response WSDL message for the <b>WriteSlicedXml</b> WSDL operation.

### 3.1.4.112.1.1 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.

### 3.1.4.112.1.2 BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage

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

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

### 3.1.4.112.2 Elements

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

Element	Description
<b>WriteSlicedXml</b>	The input data for the <b>WriteSlicedXml WSDL operation</b> .
<b>WriteSlicedXmlResponse</b>	The result data for the <b>WriteSlicedXml</b> WSDL operation.

### 3.1.4.112.2.1 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:** Deprecated.

**packageContents:** Deprecated.

### 3.1.4.112.2 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:** Deprecated.

### 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.

### 3.1.5 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 on how the protocol client operates with the protocol server when executing such an operation.

The examples in this section manipulate the **LobSystem** and **Entity** objects. However, the principals illustrated apply equally to other MetadataObjects.

### 4.1 Creating an LobSystem

This example illustrates how a user can create an **LobSystem** in the **metadata store**.

The following actions are carried out:

1. The user requests the protocol client to create an **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **MetadataObjectCreate** method as shown in the following sample code segment:

```
// Assumes a Service Reference to the Business Data Catalog shared service has been created

// Instantiate the Business Data Catalog SharedService client
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

// Instantiate the AdministrationMetadataCatalogStruct
BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new
BDCServiceReference.AdministrationMetadataCatalogStruct();
myBDC.id = 1;

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
myBDC.partitionId = myPartition;

// Instantiate the LobSystem object
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();

// Setup the LobSystem object
myLob.partitionId = myPartition;
myLob.name = "ExampleCRM";
myLob.systemType = BDCServiceReference.SystemType.Database;

// call the MetadataObjectCreate method to create the LobSystem.
myClient.MetadataObjectCreate(myLob, myBDC);
```

### Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>0</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </rawValues>
    </MetadataObjectCreate>
  </s:Body>
</s:Envelope>
```

```

    </rawValues>
    <parentStruct i:type="a:AdministrationMetadataCatalogStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
      <a:id>1</a:id>
      <a:isCached>>false</a:isCached>
      <a:name i:nil="true"/>
      <a:objectVersion>0</a:objectVersion>
      <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    </parentStruct>
  </MetadataObjectCreate>
</s:Body>
</s:Envelope>

```

## Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <MetadataObjectCreateResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <MetadataObjectCreateResult i:type="a:LobSystemStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a: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 of an **LobSystem**.

This example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to set **ACEs** on the **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **SetAccessControlEntries** method as shown in the following sample code segment:

```

//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();

// ***** Any implementation-specific impersonation logic goes here *****

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SetAccessControlEntries
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:LobSystemStruct"
        xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
        instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </metadataObjectStruct>
      <accessControlEntries xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:AccessControlEntryStruct>
          <a:principalBinaryForm i:nil="true"/>
          <a:principalDisplayName>UserName</a:principalDisplayName>
          <a:principalName>Domain\UserName</a:principalName>
          <a:rights>23</a:rights>
        </a: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://schemas.xmlsoap.org/soap/envelope/">
  <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 been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** identified by name "ExampleCRM".

2. The protocol client calls the **GetAccessControlEntries** method as shown in the following code segment:

```
//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// ***** Any implementation-specific impersonation logic goes here *****/

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

//First get 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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAccessControlEntries
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:LobSystemStruct"
        xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a: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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAccessControlEntriesResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetAccessControlEntriesResult xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:AccessControlEntryStruct>
          <a:principalBinaryForm i:nil="true"/>
          <a:principalDisplayName>UserName</a:principalDisplayName>
          <a:principalName>Domain\UserName</a:principalName>
          <a:rights>23</a:rights>
        </a: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 will contain the **Entity** is already created in the metadata store.
- The **LobSystem** is identified by the name "ExampleCRM".
- The **PartitionId** used while creating the **LobSystem** is "00000000-0000-0000-0000-000000000000".
- 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** with the name "Customer", the namespace "example.com", and an estimated instance count of 100.
2. The protocol client calls the **EntityCreate** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

//Get LOB system first as it is needed for creating the entity.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Instantiate 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 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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>0</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
      </rawValues>
    </EntityCreate>
  </s:Body>
</s:Envelope>
```

```

    <a:namespace>example.com</a:namespace>
    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
      <b:_Build>0</b:_Build>
      <b:_Major>1</b:_Major>
      <b:_Minor>0</b:_Minor>
      <b:Revision>0</b:Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
  </rawValues>
  <lobSystemStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <a:id>122</a:id>
    <a:isCached>>false</a:isCached>
    <a:name>ExampleCRM</a:name>
    <a:objectVersion>0</a:objectVersion>
    <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    <a:systemType>Database</a:systemType>
  </lobSystemStruct>
  <modelStruct i:nil="true" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</EntityCreate>
</s:Body>
</s:Envelope>

```

## Response body



```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <EntityCreateResult xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a: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 been successfully executed.

- After successfully creating the "Customer" **Entity**, the user has added some other **MetadataObjects** to; an **Identifier**, **Method**, and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** with the name "Customer", the namespace "example.com", and the **PartitionId** "00000000-0000-0000-0000-000000000000".
2. The protocol client calls the **Activate** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <entityStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </entityStruct>
    </Activate>
  </s:Body>
</s:Envelope>
```

### Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
```

```

<s:Body>
  <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
    <ActivateResult xmlns:a="Microsoft.SharePoint.BusinessData"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <a:id>135</a:id>
      <a:isCached>true</a:isCached>
      <a:name>Customer</a:name>
      <a:objectVersion>1</a:objectVersion>
      <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
      <a:active>true</a:active>
      <a:lobSystemId>122</a:lobSystemId>
      <a:modelId>0</a:modelId>
      <a:namespace>example.com</a:namespace>
      <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
        <b:_Build>0</b:_Build>
        <b:_Major>1</b:_Major>
        <b:_Minor>0</b:_Minor>
        <b:_Revision>0</b:_Revision>
      </a:version>
      <a:cacheUsage>Default</a:cacheUsage>
      <a:description i:nil="true"/>
      <a:estimatedInstanceCount>100</a: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 been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** with the name "Customer" and the namespace "example.com" from the metadata store.
2. The protocol client calls the **GetEntityWithNameAndNamespace** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEntityWithNameAndNamespace
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <namespace>example.com</namespace>
    </GetEntityWithNameAndNamespace>
  </s:Body>
</s:Envelope>

```

```

        <name>Customer</name>
        <partitionId>00000000-0000-0000-0000-000000000000</partitionId>
    </GetEntityWithNameAndNamespace>
</s:Body>
</s:Envelope>

```

## Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEntityWithNameAndNamespaceResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetEntityWithNameAndNamespaceResult xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a: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 been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to create a Property for the **Entity** with the name "Customer" and the namespace "example.com".
2. To add a custom property called "CustomerAlternateName", the protocol client calls the **SaveProperty** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

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("00000000-0000-0000-0000-000000000000");

```

```

//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 property to the entity object
myClient.SaveProperty(myEntity, myProperty);

```

## Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b: Build>0</b: Build>
          <b: _Major>1</b: _Major>
          <b: _Minor>0</b: _Minor>
          <b: _Revision>0</b: _Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
      <propertyStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:needsTypeReflectionResolution>>false</a:needsTypeReflectionResolution>
        <a:wcfMarshallableValue i:nil="true"/>
        <a:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
        <a:wcfMarshallableValueType i:nil="true"/>
        <a:metadataObjectId>0</a:metadataObjectId>
        <a:name>CustomerAltName</a:name>
        <a:settingId i:nil="true"/>
        <a:typeName>System.String</a:typeName>
      </propertyStruct>
    </SaveProperty>
  </s:Body>
</s:Envelope>

```

## Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```



## 4.8 Adding Localized Names for MetadataObjects

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 **MetadataObject**.

The example assumes that the preceding examples have been successfully executed and that the user wants to create the localized name for **LCID 2058**.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** with the name "Customer" and the namespace "example.com".
2. The protocol client calls the **SaveLocalizedName** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);

myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
```

3. The protocol server checks whether an Entity with name "Customer" and 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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:Build>0</b:Build>
          <b:Major>1</b:Major>
          <b:Minor>0</b:Minor>
          <b:Revision>0</b:Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a: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://schemas.xmlsoap.org/soap/envelope/">
  <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 been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** with the name "Customer" and the namespace "example.com" and change its name from "Customer" to "Buyer".
2. The protocol client calls the **Update** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,1,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

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 if the **Entity** exists in the metadata store.
4. If it exists, the protocol server updates all the name attribute of the **Entity** with the supplied value.

## Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">

```

```

    <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
    <a:id>135</a:id>
    <a:isCached>true</a:isCached>
    <a:name>Buyer</a:name>
    <a:objectVersion>2</a:objectVersion>
    <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    <a:active>true</a:active>
    <a:lobSystemId>122</a:lobSystemId>
    <a:modelId>0</a:modelId>
    <a:namespace>example.com</a:namespace>
    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
    <b:_Build>0</b:_Build>
    <b:_Major>1</b:_Major>
    <b:_Minor>0</b:_Minor>
    <b:_Revision>0</b:_Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
    </metadataObjectStruct>
  </Update>
</s:Body>
</s:Envelope>

```

## Response body



```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <UpdateResult i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>3</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a: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 been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** with the name "Buyer" and the namespace "example.com".
2. The protocol client calls the **Delete** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1, 1);

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer", myPartition);
myClient.Delete(myEntity);
```

3. The protocol server checks if 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://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>3</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:Build>0</b:Build>
          <b:Major>1</b:Major>
          <b:Minor>0</b:Minor>
          <b:Revision>0</b:Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
    </Delete>
  </s:Body>
</s:Envelope>
```

### Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <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**

None

Preliminary

## 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:tns4="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.SharePoint.BusinessData.Administ
ration.Client.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_InvalidOperationExceptionFau
lt_FaultMessage"/>
    </wsdl:operation>
  </wsdl:portType>

```

```

    <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:operation>

```



```

    <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/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/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_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_ArgumentExceptio
nFault 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_MetadataExceptio
nStateFault 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="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
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="InvalidOperationExceptionFault"
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="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
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 ArgumentExcepti
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: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_MetadataExcepti
onStateFault_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/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity BdcExceptionStateFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity InvalidOperationExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStat
eFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
ArgumentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_MetadataExceptionStateFault 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/GetMethodByIdArgumentOutOfRangeOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeException_Fault_
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_InvalidOperationExceptio
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_InvalidOperationExceptionF
ault_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_MetadataException
StateFault_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="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeException"
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="InvalidOperationException"
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="ArgumentNullException"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeException"
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_InvalidOperationExce
ptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFa
ult 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 InputMes
sage"/>
    <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 Argu
mentExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argu
mentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance Argu
mentOutOfRangeExceptionFault 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
Fault 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 Meta
dataExceptionStateFault 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="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_ArgumentOutOfRangeExceptionFault FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFault FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup InputMessage"/>

```

```

    <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_Inv
alidOperationExceptionFault_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_Input
Message"/>
    <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_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_MetadataExceptionStateFault_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/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault
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:operation>

```

```

<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>
<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="ArgumentException">
        <soap:fault use="literal" name="ArgumentException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullException">
        <soap:fault use="literal" name="ArgumentNullException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeException">
        <soap:fault use="literal" name="ArgumentOutOfRangeException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationException">
        <soap:fault use="literal" name="InvalidOperationException" 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="ArgumentException">
        <soap:fault use="literal" name="ArgumentException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullException">
        <soap:fault use="literal" name="ArgumentNullException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeException">
        <soap:fault use="literal" name="ArgumentOutOfRangeException" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationException">
        <soap:fault use="literal" name="InvalidOperationException" 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="ArgumentException">

```



```

    <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 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>
<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>
<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: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: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:operation>

```

```

</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: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 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>
<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="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="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="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="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="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="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: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:operation>

```

```

</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 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>
<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 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: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:operation>

```

```

</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>
  <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 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 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>
    <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="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 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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage
">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNull
ExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutO
fRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcException
StateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExce
ptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService AddEntityToModel OutputMessage">
    <wsdl:part name="parameters" element="tns:AddEntityToModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_
FaultMessage">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeException
Fault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_Fault
tMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage">
    <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFa
ult FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage">
    <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidateResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault_Fault
tMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstancesResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage">

```



```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearPropertiesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclAcrossChildren"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionF
ault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRangeExceptionExce
ptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionState
Fault FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExce
ptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Metadat
aExceptionStateFault_FaultMessage">

```

```

        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExcept
ionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRange
ExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateF
ault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionS
tateFault_FaultMessage">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessag
e">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFault_Fault
Message">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessa
ge">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExceptionF
ault FaultMessage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
            </wsdl:message>
            <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRangeExce
ptionFault FaultMessage">
              <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault
FaultMessage">
                <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionState
Fault FaultMessage">
                    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullExceptio
nFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOfRangeEx
ceptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionStateFau
lt FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExceptionSta
teFault FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFau
ltFaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionExcepti
onFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault Fa
ultMessage">
            <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage">
                <wsdl:part name="parameters" element="tns:GetActionParametersForAction"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationException
Fault_FaultMessage">
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFau
lt_FaultMessage">
                        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                          </wsdl:message>
                          <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage">
                            <wsdl:part name="parameters" element="tns:GetActionParametersForActionResponse"/>
                              </wsdl:message>
                              <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessag
e">
                                <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                                  </wsdl:message>
                                  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMe
ssage">
                                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                                      </wsdl:message>
                                      <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_F
aultMessage">
                                        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                                          </wsdl:message>
                                          <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessag
e">
                                            <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNames"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExcepti
onStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesForMetadataObjectStruct"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetAllLocalizedNamesForMetadataObjectStructResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPartitionIds"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAllProperties"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMess
age">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAllPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExcept
ionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullEx
ceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfR
angeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionSt
ateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPropertiesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperati
onExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExcept
ionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault Fa
ultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntity"/>
  </wsdl:message>

```



```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationMembersInRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFau
lt_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationMembersInRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationReferencesForAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetAssociationReferencesForAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage">

```

```

    <wsdl:part name="parameters" element="tns:GetAssociationsForDataClass"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRole"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRoleResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultM
essage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_F
aultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationsForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedExceptio
nFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeExc
eptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFaul
t_FaultMessage">

```

```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSince"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperationExcept
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExceptionStat
eFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSinceResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExcept
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExcept
tionStateFault_FaultMessage">

```

```

    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_InputMessage">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassesForSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault
_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault
_FaultMessage">

```

```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_BdcExc
eptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Inpu
tMessage">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRole"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespace"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionSt
ateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceAndVersion"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InvalidOperati
onExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_MetadataExcept
ionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns:GetEntityWithNameAndNamespaceAndVersionResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionSt
ateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFieldTypeDescriptorsByMethodInstance"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperati
onExceptionFault_FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExcept
ionStateFault_FaultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_Fau
ltMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFau
lt FaultMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMe
ssage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_Fa
ultMessage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionExcep
tionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateF
ault FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault FaultMess
age">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMes
sage">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
      </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
            </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMessage">
            <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                  </wsdl:message>
                <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExceptionFault_FaultMessage">
                  <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                    </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                      </wsdl:message>
                    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFault_FaultMessage">
                      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                            </wsdl:message>
                          <wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemProxyAssemblyBytesByLobSystemId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel A
rgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_B
dcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_M
etadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFaul
t_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>

```

```

    <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_InputMessage">
      <wsdl:part name="parameters" element="tns:GetModelById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessa
ge">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"
>
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage
">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultM
essage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_FaultMessag
e">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMe
ssage">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
  </wsdl:message>
name="BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage">
      <wsdl:part name="parameters" element="tns:GetModelsByEntityId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_Fau
ltMessage">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
      </wsdl:message>
    </wsdl:message>
name="BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_FaultM
essage">
      <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
    </wsdl:message>
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessag
e">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
      </wsdl:message>
    </wsdl:message>
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_Fault
Message">
      <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
      </wsdl:message>
    </wsdl:message>
name="BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
      </wsdl:message>
      <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetModelsByName"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
        </wsdl:message>
      </wsdl:message>
name="BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessa
ge">

```

```

    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMes
sage">

```

```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentN
ullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_BdcExcept
ionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataE
xceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRan
geExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStat
eFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRan
geExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageWithProgress"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns:ImportPackageWithProgressResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateF
ault_FaultMessage">

```

```

    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault
FaultMessage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessa
ge">
                <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
                  </wsdl:message>
                  <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage">
                    <wsdl:part name="parameters" element="tns:IsMethodInstantiated"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_Fa
ultMessage">
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_Fault
Message">
                        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                          </wsdl:message>
                          <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage">
                            <wsdl:part name="parameters" element="tns:IsMethodInstantiatedResponse"/>
                          </wsdl:message>
                          <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptio
nFault_FaultMessage">
                            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                              </wsdl:message>
                              <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExce
ptionFault_FaultMessage">
                                <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                                  </wsdl:message>
                                  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRan
geExceptionFault_FaultMessage">
                                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                                      </wsdl:message>
                                      <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStat
eFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage">
    <wsdl:part name="parameters" element="tns:IsParameterReferencedByMethodInstance"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperation
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage">
    <wsdl:part name="parameters"
element="tns:IsParameterReferencedByMethodInstanceResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreateResponse"/>
  </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectMergeXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFaul
t FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectReadXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFaul
t FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFault_Fau
ltMessage">

```

```

    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage">
>
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:ModelReadXmlResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage">
>
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault
FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_Fault
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveLocalizedName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessag
e">

```

```

    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
      </wsdl:message>
      <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
          </wsdl:message>
          <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_InputMessage">
            <wsdl:part name="parameters" element="tns:RemoveProperty"/>
          </wsdl:message>
          <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMes
sage">
            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
              </wsdl:message>
              <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessag
e">
                <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
                  </wsdl:message>
                  <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_OutputMessage">
                    <wsdl:part name="parameters" element="tns:RemovePropertyResponse"/>
                  </wsdl:message>
                  <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
>
                    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
                      </wsdl:message>
                      <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMess
age">
                        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
                          </wsdl:message>
                          <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
                            <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
                              </wsdl:message>
                              <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
>
                                <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
                                      </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault Fau
ltMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntriesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault Fault
Message">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultActionForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFau
lt FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault
FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStateFault_FaultMessage">

```



```

    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorCreate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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_FaultMes
sage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q1: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:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4: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
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a>	q1	<a href="#">7.1</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel</a>	tns1	<a href="#">7.2</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime</a>	tns2	<a href="#">7.3</a>
Microsoft.BusinessData.SharePoint	q4	<a href="#">7.4</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants">http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants</a>	tns3	<a href="#">7.5</a>
Microsoft.SharePoint.BusinessData	q5	<a href="#">7.6</a>
<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	q9	<a href="#">7.7</a>
<a href="http://schemas.microsoft.com/2003/10/Serialization/">http://schemas.microsoft.com/2003/10/Serialization/</a>	ser	<a href="#">7.8</a>
<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	q2	<a href="#">7.9</a>
<a href="http://www.microsoft.com/Office/2009/BusinessDataCatalog">http://www.microsoft.com/Office/2009/BusinessDataCatalog</a>	tns	<a href="#">7.10</a>

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:q1="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="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:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="BdcExceptionState" nillable="true" type="q1:BdcExceptionState"/>
  <xs:complexType name="AccessDeniedExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension base="q1: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:complexType>
<xs:element name="AccessDeniedExceptionState" nillable="true"
type="q1:AccessDeniedExceptionState"/>
<xs:complexType name="AccessDeniedException">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:BdcException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="AccessDeniedException" nillable="true" type="q1:AccessDeniedException"/>
<xs:complexType name="BdcException">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q2="http://schemas.datacontract.org/2004/07/System"
base="q2:Exception"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="BdcException" nillable="true" type="q1:BdcException"/>
<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="q1:BdcRights"/>
</xs:schema>

```

## 7.2 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel del 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="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:simpleType>
<xs:element name="DirectionType" nillable="true" type="tns1:DirectionType"/>
<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="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: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="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:schema>

```

### 7.3 <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: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>
```

### 7.4 [Microsoft.BusinessData.SharePoint](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SharePoint) Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q4="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="q4:MetadataException"/>
</xs:schema>
```

### 7.5 <http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants> Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.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:restriction>
  </xs:simpleType>
```



```

        <xs:enumeration value="SharedLobSystemsInModel"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true"
type="tns3: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="tns3:EntityConstants.EntitiesInModelQuery"/>
</xs:schema>

```

## 7.6 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/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="InvalidMetadataObjectExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4: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="DuplicateMetadataObjectExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4: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="ExceededMetadataObjectLimitExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="Limit" type="xs:int"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>

```

```

    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true"
type="q5:ExceededMetadataObjectLimitExceptionState"/>
  <xs:complexType name="ConcurrentModificationExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4: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="InvalidMetadataPropertyExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4: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:complexType name="MetadataObjectNotFoundExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4: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: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="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: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="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="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="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="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: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:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2: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="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="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:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="MethodInstanceStruct" nillable="true" type="q5:MethodInstanceStruct"/>
<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="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="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="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="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:q4="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="q4: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:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <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="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>

```

## 7.7 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>

```

## 7.8 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>

```

## 7.9 <http://schemas.datacontract.org/2004/07/System> Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q2="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="InvalidOperationException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:SystemException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="InvalidOperationException" nillable="true"
  type="q2:InvalidOperationException" />
  <xs:complexType name="SystemException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SystemException" nillable="true" type="q2:SystemException" />
  <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="q2:Exception" />
  <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="q2:Version"/>
  <xs:complexType name="ArgumentOutOfRangeException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:ArgumentException"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArgumentOutOfRangeException" nillable="true"
type="q2:ArgumentOutOfRangeException"/>
  <xs:complexType name="ArgumentException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:SystemException"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArgumentException" nillable="true" type="q2:ArgumentException"/>
  <xs:complexType name="ArgumentNullException">
    <xs:complexContent mixed="false">
      <xs:extension base="q2:ArgumentException"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArgumentNullException" nillable="true" type="q2:ArgumentNullException"/>
</xs:schema>

```

## 7.10 <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.Administ
ration.Client.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: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:q1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="q1: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: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="packgeContents" 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: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:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="queryMode"
type="tns3: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 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:tns3="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="mode"
type="tns3: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:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q2: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: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: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>
<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: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: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: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: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>
<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="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 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>

```



## 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 Office 2010 suites
- Microsoft SharePoint Foundation 2010
- Microsoft Office 2013
- Microsoft SharePoint Foundation 2013
- Microsoft Office 2016
- Microsoft SharePoint Server 2016
- Microsoft Office 2019 Preview
- Microsoft SharePoint Server 2019 Preview

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 and SharePoint Foundation 2013 require 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 and SharePoint Foundation 2013, only the restriction that the index be greater than or equal to zero is enforced.

<3> [Section 2.2.4.21](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 always set the values to zero on return.

<4> [Section 2.2.4.22](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this **GUID** can be non-empty.

<5> [Section 2.2.4.31](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this element is ignored, and the **EntityCreate** operation always sets the **description** element to NULL in the response.

<6> [Section 2.2.4.41](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this can be other values.

<7> [Section 2.2.4.51](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require that Business Logic Modules conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and are understood by the .NET Framework.

<8> [Section 2.2.4.53](#): The culture names used by SharePoint Foundation 2010 and SharePoint Foundation 2013 are as specified in [\[MSDN-SharePointSDK\]](#).

<9> [Section 2.2.4.53](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require this data type to conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and to be understood by the .NET Framework.

<10> [Section 2.2.4.53](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require that the data type to conform to the Common Language Infrastructure (CLI) as specified in [ECMA-335] and is understood by the .NET Framework.

<11> [Section 2.2.4.53](#): The SharePoint Foundation 2010 and SharePoint Foundation 2013 modules that perform the mapping of value of the **typeName** element to data types require the value of the **typeName** element to be in the following format.

```
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 and SharePoint Foundation 2013 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 and SharePoint Foundation 2013 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 <b>Unicode</b> 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 zero through 65535.
System.UInt32	A number in the range from zero through 4,294,967,295.
System.UInt64	A number in the range from zero through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 0001 through 11:59:59 PM, December 31, 9999, 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.

Value	Description
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 zero through 255.
System.SByte	A number in the range from –128 through 127.
System.Guid	A GUID.
System.Boolean	A bit.
System.Uri	A <b>URL</b> .

<12> [Section 2.2.5.9](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<13> [Section 3.1.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013 implementations 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.

<14> [Section 3.1.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, if The Entity is already Active, Object version is incremented by 2.

<15> [Section 3.1.4](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<16> [Section 3.1.4](#): The Business Logic Module conforms to [ECMA-335] specification and is understood by the .NET Framework.

<17> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

<18> [Section 3.1.4](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation always returns zero TypeDescriptors.

<19> [Section 3.1.4](#): The behavior would be identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

<20> [Section 3.1.4](#): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

<21> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the **security principal (2)** on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

<22> [Section 3.1.4](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<23> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

<24> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

<25> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 ignore the level parameter when retrieving the **TypeDescriptors**.

<26> [Section 3.1.4](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

<27> [Section 3.1.4.2.2.2](#): **associationReferenceStruct** contains the wrong **AssociationGroupId**.

<28> [Section 3.1.4.4.2.1](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, if **model** is not null, the **PartitionId** element of the **Model** is same as the **PartitionId** of these Entities.

<29> [Section 3.1.4.4.2.2](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, the **PartitionId** elements of these **Entities** are not an **empty GUID**.

<30> [Section 3.1.4.13](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

<31> [Section 3.1.4.13](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

<32> [Section 3.1.4.16](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<33> [Section 3.1.4.16.2.1](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<34> [Section 3.1.4.18](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, a security principal (2) is authorized to export a **MetadataObject**, if the same security principal (2) is authorized to modify the same **MetadataObject**.

<35> [Section 3.1.4.19](#): The Business Logic Module conforms to [ECMA-335] specification and is understood by the .NET Framework.

<36> [Section 3.1.4.23](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<37> [Section 3.1.4.23](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<38> [Section 3.1.4.24](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<39> [Section 3.1.4.25](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<40> [Section 3.1.4.26](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<41> [Section 3.1.4.32](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<42> [Section 3.1.4.32](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<43> [Section 3.1.4.34](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<44> [Section 3.1.4.35](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<45> [Section 3.1.4.36](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section [2.2.4.38](#)) in this case.

<46> [Section 3.1.4.37](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<47> [Section 3.1.4.38](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

<48> [Section 3.1.4.39](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<49> [Section 3.1.4.40](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation always returns zero TypeDescriptors.

<50> [Section 3.1.4.40](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<51> [Section 3.1.4.40](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<52> [Section 3.1.4.42](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<53> [Section 3.1.4.44](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<54> [Section 3.1.4.44](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<55> [Section 3.1.4.45](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<56> [Section 3.1.4.47](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<57> [Section 3.1.4.49](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not raise an error in this case.

<58> [Section 3.1.4.49](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not raise an error in this case.

<59> [Section 3.1.4.50](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** complex type (section [2.2.4.25](#)) in this case.

<60> [Section 3.1.4.55](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<61> [Section 3.1.4.55](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<62> [Section 3.1.4.57](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<63> [Section 3.1.4.57](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<64> [Section 3.1.4.59](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<65> [Section 3.1.4.59](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<66> [Section 3.1.4.60](#): The behavior would be identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

<67> [Section 3.1.4.60](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

<68> [Section 3.1.4.61](#): Microsoft SharePoint Foundation 2010 Service Pack 1 and SharePoint Foundation 2013 do respond with **AccessDeniedExceptionState** in this case. However, SharePoint Foundation 2010 instead responds with **ArgumentNullException**.

<69> [Section 3.1.4.62](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

<70> [Section 3.1.4.63](#): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

<71> [Section 3.1.4.63](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

<72> [Section 3.1.4.63](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<73> [Section 3.1.4.63.2.2](#): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

<74> [Section 3.1.4.64](#): SharePoint Foundation 2010 (SP1) and SharePoint Foundation 2013 do respond with **AccessDeniedExceptionState** in this case. However, SharePoint Foundation 2010 instead responds with **BdcExceptionState**.

<75> [Section 3.1.4.65](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

<76> [Section 3.1.4.65](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<77> [Section 3.1.4.65](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<78> [Section 3.1.4.66](#): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

<79> [Section 3.1.4.66](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.



<80> [Section 3.1.4.66.2.2](#): A set of Business Logic Modules that conform to the [ECMA-335] specification and is understood by the .NET Framework.

<81> [Section 3.1.4.67](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the **LobSystem**.

<82> [Section 3.1.4.68](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 check the edit rights of the security principal (2) on the LobSystem to determine if the security principal (2) is authorized to read the LobSystem.

<83> [Section 3.1.4.68](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<84> [Section 3.1.4.68](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<85> [Section 3.1.4.71](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<86> [Section 3.1.4.72](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<87> [Section 3.1.4.73](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<88> [Section 3.1.4.73](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<89> [Section 3.1.4.76](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<90> [Section 3.1.4.79](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<91> [Section 3.1.4.79](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<92> [Section 3.1.4.82.2.2](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 require the identifier to be in the following format as expressed in ABNF as specified in [\[RFC5234\]](#):

```
Identifier = TypeName *1(%x2C FullAssemblyName)
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

where 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 [ECMA-335] specification and can be understood by the .NET Framework. The format is as specified in [MS-NRTP], Section 2.2.1.2. The specified type implements operations that are described in [MSDN-SharePointSDK].

<93> [Section 3.1.4.84](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 ignore the level parameter when retrieving the **TypeDescriptors**.

<94> [Section 3.1.4.84.2.1](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, **level** is ignored. Only **name**, **parameterId** and **partitionId** are used.

<95> [Section 3.1.4.87](#): In the case where the **MethodInstance** is an **AccessChecker**, SharePoint Foundation 2010 and SharePoint Foundation 2013 do not respond with a fault, instead return an invalid response, which MUST be ignored by the protocol client.

<96> [Section 3.1.4.87.2.2](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 use **XML namespace** value "http://tempuri.org/XMLSchema.xsd/" concatenated with the namespace of the Entity that contains the specified MethodInstance.

<97> [Section 3.1.4.87.2.2](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 use XML namespace value "http://schemas.microsoft.com/windows/2007/BusinessDataCatalog/Annotations".

<98> [Section 3.1.4.92.2.2](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation always returns false.

<99> [Section 3.1.4.93](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<100> [Section 3.1.4.93.2.2](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, if the **MetadataObject** specified in the request is an Entity, this operation will not set **description** while returning created **MetadataObject**.

<101> [Section 3.1.4.94](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** complex type (section 2.2.4.25) in the case where **MetadataObject** is **LobSystem**.

<102> [Section 3.1.4.94](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 could return a fault containing the **BdcExceptionState** (section 2.2.4.25) instead of **PackageFormatExceptionState** (section [2.2.4.48](#)).

<103> [Section 3.1.4.95](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

<104> [Section 3.1.4.96](#): In the case when the **packageContents** element is specified as **Model**, **LocalizedNames** or **None**, SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault.

<105> [Section 3.1.4.96.2.2](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

<106> [Section 3.1.4.97](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** (section 2.2.4.25) in this case MetadataObject is LobSystem.

<107> [Section 3.1.4.97](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidOperationException** complex type (section 2.2.4.38) in this case.

<108> [Section 3.1.4.97](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **BdcExceptionState** (section 2.2.4.25) in this case MetadataObject is LobSystem.

<109> [Section 3.1.4.108](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

<110> [Section 3.1.4.110](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in cases where **xml** does not contain either the IdentifierName, IdentifierEntityName and IdentifierEntityNamespace, or the AssociationName, AssociationEntityName and AssociationEntityNamespace.

<111> [Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<112> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<113> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<114> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<115> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<116> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not raise an error in this case.

[<117> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<118> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<119> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<120> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a **MetadataException**, serialized as specified in section 2.2.4, in this case.

[<121> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<122> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 do not return a fault in this case.

[<123> Section 3.1.4.111](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 always return a fault containing the **BdcExceptionState** complex type (section 2.2.4.25).

[<124> Section 3.1.4.111](#): In SharePoint Foundation 2010 and SharePoint Foundation 2013, this operation does not set the **IsDefault** attribute of a **MethodInstance** with the same value for **MethodInstanceType** within the containing **DataClass** to 1.

[<125> Section 3.1.4.111.2.1](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 return a fault containing the **InvalidMetadataObjectExceptionState** complex type (section 2.2.4.38) in cases where the specified **MetadataObject** is the **FilterDescriptor** of type **TimeStampFilter**.

[<126> Section 3.1.4.112](#): SharePoint Foundation 2010 and SharePoint Foundation 2013 call this method only when a deprecated public API is invoked.

## 9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

Section	Description	Revision class
<a href="#">8</a> Appendix C: Product Behavior	Updated list of supported products.	Major

## 10 Index

### A

Abstract data model  
  [server](#) 89  
[AccessControlEntryStruct complex type](#) 53  
[AccessDeniedException complex type](#) 54  
[AccessDeniedExceptionState complex type](#) 54  
[ActionParameterStruct complex type](#) 55  
[ActionStruct complex type](#) 55  
[Activate an Entity example](#) 532  
[Adding localized names for MetadataObjects example](#)  
  537  
[AdministrationMetadataCatalogStruct complex type](#)  
  56  
[Applicability](#) 46  
[ArgumentException complex type](#) 56  
[ArgumentNullException complex type](#) 56  
[ArgumentOutOfRangeException complex type](#) 57  
[ArrayOfAccessControlEntryStruct complex type](#) 57  
[ArrayOfAssociationStruct complex type](#) 57  
[ArrayOfEntityStruct complex type](#) 57  
[ArrayOfLobSystemStruct complex type](#) 58  
[ArrayOfLocalizedNameStruct complex type](#) 58  
[ArrayOfMethodInstanceStruct complex type](#) 58  
[ArrayOfModelStruct complex type](#) 59  
[ArrayOfPropertyStruct complex type](#) 59  
[ArrayOfstring complex type](#) 59  
[ArrayOfTypeDescriptorStruct complex type](#) 59  
[ArrayOfunsignedInt complex type](#) 60  
[AssociationGroupStruct complex type](#) 60  
[AssociationReferenceStruct complex type](#) 61  
[AssociationStruct complex type](#) 62  
[Attribute groups](#) 88  
[Attributes](#) 88

### B

[BdcException complex type](#) 63  
[BdcExceptionState complex type](#) 63

### C

[CacheUsage simple type](#) 81  
[Capability negotiation](#) 46  
[Change tracking](#) 788  
[char simple type](#) 81  
[Complex types](#) 49  
  [AccessControlEntryStruct](#) 53  
  [AccessDeniedException](#) 54  
  [AccessDeniedExceptionState](#) 54  
  [ActionParameterStruct](#) 55  
  [ActionStruct](#) 55  
  [AdministrationMetadataCatalogStruct](#) 56  
  [ArgumentException](#) 56  
  [ArgumentNullException](#) 56  
  [ArgumentOutOfRangeException](#) 57  
  [ArrayOfAccessControlEntryStruct](#) 57  
  [ArrayOfAssociationStruct](#) 57  
  [ArrayOfEntityStruct](#) 57  
  [ArrayOfLobSystemStruct](#) 58  
  [ArrayOfLocalizedNameStruct](#) 58

[ArrayOfMethodInstanceStruct](#) 58  
[ArrayOfModelStruct](#) 59  
[ArrayOfPropertyStruct](#) 59  
[ArrayOfstring](#) 59  
[ArrayOfTypeDescriptorStruct](#) 59  
[ArrayOfunsignedInt](#) 60  
[AssociationGroupStruct](#) 60  
[AssociationReferenceStruct](#) 61  
[AssociationStruct](#) 62  
[BdcException](#) 63  
[BdcExceptionState](#) 63  
[ComplexValueStruct](#) 63  
[ConcurrentModificationExceptionState](#) 64  
[DataClassStruct](#) 64  
[DefaultValueStruct](#) 65  
[DuplicateMetadataObjectExceptionState](#) 65  
[EntityStruct](#) 66  
[ExceededMetadataObjectLimitExceptionState](#) 66  
[Exception](#) 67  
[FilterDescriptorStruct](#) 67  
[IdentifierStruct](#) 67  
[InvalidMetadataObjectExceptionState](#) 69  
[InvalidMetadataPropertyExceptionState](#) 69  
[InvalidOperationException](#) 70  
[LobSystemInstanceStruct](#) 70  
[LobSystemStruct](#) 70  
[LocalizedNameStruct](#) 70  
[MetadataException](#) 71  
[MetadataObjectNotFoundExceptionState](#) 71  
[MetadataObjectStruct](#) 72  
[MethodInstanceStruct](#) 73  
[MethodStruct](#) 73  
[ModelStruct](#) 74  
[PackageFormatExceptionState](#) 74  
[ParameterStruct](#) 75  
[PropertyStruct](#) 75  
[ProxyGenerationResult](#) 76  
[SystemException](#) 76  
[TypeDescriptorStruct](#) 76  
[Version](#) 80

[ComplexValueStruct complex type](#) 63  
[ConcurrentModificationExceptionState complex type](#)  
  64  
[Creating an Entity example](#) 531  
[Creating an LobSystem example](#) 527  
[Creating properties for MetadataObjects example](#)  
  535

### D

Data model - abstract  
  [server](#) 89  
[DataClassStruct complex type](#) 64  
[DefaultValueStruct complex type](#) 65  
[Deleting an Entity example](#) 539  
[DirectionType simple type](#) 81  
[DuplicateMetadataObjectExceptionState complex type](#) 65  
[duration simple type](#) 82

### E

[EntityStruct complex type](#) 66

Events

[local - server](#) 526

[timer - server](#) 526

Examples

[activate an Entity](#) 532

[adding localized names for MetadataObjects](#) 537

[creating an Entity](#) 531

[creating an LobSystem](#) 527

[creating properties for MetadataObjects](#) 535

[deleting an Entity](#) 539

[overview](#) 527

[reading an Entity](#) 534

[reading the security information of a](#)

[MetadataObject](#) 529

[setting the security information of a](#)

[MetadataObject](#) 528

[updating an Entity](#) 538

[ExceededMetadataObjectLimitExceptionState complex type](#) 66

[Exception complex type](#) 67

**F**

[Fields - vendor-extensible](#) 47

[FilterDescriptorStruct complex type](#) 67

[FilterType simple type](#) 82

[Full WSDL](#) 542

[Full XML schema](#) 733

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure> Schema 733

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel> Schema 734

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema 736

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Clients.Constants> Schema 736

<http://schemas.datacontract.org/2004/07/System> Schema 748

<http://schemas.microsoft.com/2003/10/Serialization/> Schema 747

<http://schemas.microsoft.com/2003/10/Serialization/Arrays> Schema 747

<http://www.microsoft.com/Office/2009/BusinessDataCatalog> Schema 749

[Microsoft.BusinessData.SharePoint Schema](#) 736

[Microsoft.SharePoint.BusinessData Schema](#) 737

**G**

[Glossary](#) 37

[Groups](#) 88

[guid simple type](#) 84

**I**

[IdentifierStruct complex type](#) 67

[Implementer - security considerations](#) 541

[Index of security parameters](#) 541

[Informative references](#) 45

Initialization

[server](#) 94

[Introduction](#) 37

[InvalidMetadataObjectExceptionState complex type](#)

69

[InvalidMetadataPropertyExceptionState complex type](#)

69

[InvalidOperationException complex type](#) 70

**L**

[LobSystemInstanceStruct complex type](#) 70

[LobSystemStruct complex type](#) 70

Local events

[server](#) 526

[LocalizedNameStruct complex type](#) 70

**M**

Message processing

[server](#) 94

Messages

[AccessControlEntryStruct complex type](#) 53

[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](#) 56

[ArgumentOutOfRangeException complex type](#) 57

[ArrayOfAccessControlEntryStruct complex type](#) 57

[ArrayOfAssociationStruct complex type](#) 57

[ArrayOfEntityStruct complex type](#) 57

[ArrayOfLobSystemStruct complex type](#) 58

[ArrayOfLocalizedNameStruct complex type](#) 58

[ArrayOfMethodInstanceStruct complex type](#) 58

[ArrayOfModelStruct complex type](#) 59

[ArrayOfPropertyStruct complex type](#) 59

[ArrayOfstring complex type](#) 59

[ArrayOfTypeDescriptorStruct complex type](#) 59

[ArrayOfunsignedInt complex type](#) 60

[AssociationGroupStruct complex type](#) 60

[AssociationReferenceStruct complex type](#) 61

[AssociationStruct complex type](#) 62

[attribute groups](#) 88

[attributes](#) 88

[BdcException complex type](#) 63

[BdcExceptionState complex type](#) 63

[CacheUsage simple type](#) 81

[char simple type](#) 81

[complex types](#) 49

[ComplexValueStruct complex type](#) 63

[ConcurrentModificationExceptionState complex type](#) 64

[DataClassStruct complex type](#) 64

[DefaultValueStruct complex type](#) 65

[DirectionType simple type](#) 81

[DuplicateMetadataObjectExceptionState complex type](#) 65

[duration simple type](#) 82  
[elements](#) 49  
[EntityStruct complex type](#) 66  
[enumerated](#) 49  
[ExceededMetadataObjectLimitExceptionState complex type](#) 66  
[Exception complex type](#) 67  
[FilterDescriptorStruct complex type](#) 67  
[FilterType simple type](#) 82  
[groups](#) 88  
[guid simple type](#) 84  
[IdentifierStruct complex type](#) 67  
[InvalidMetadataObjectExceptionState complex type](#) 69  
[InvalidMetadataPropertyExceptionState complex type](#) 69  
[InvalidOperationException complex type](#) 70  
[LobSystemInstanceStruct complex type](#) 70  
[LobSystemStruct complex type](#) 70  
[LocalizedNameStruct complex type](#) 70  
[MetadataException complex type](#) 71  
[MetadataObjectNotFoundExceptionState complex type](#) 71  
[MetadataObjectStruct complex type](#) 72  
[MethodInstanceStruct complex type](#) 73  
[MethodInstanceType simple type](#) 84  
[MethodStruct complex type](#) 73  
[ModelStruct complex type](#) 74  
[namespaces](#) 48  
[PackageContents simple type](#) 85  
[PackageFormatExceptionState complex type](#) 74  
[ParameterStruct complex type](#) 75  
[PropertyStruct complex type](#) 75  
[ProxyGenerationResult complex type](#) 76  
[simple types](#) 80  
[syntax](#) 48  
[SystemException complex type](#) 76  
[SystemType simple type](#) 86  
[transport](#) 48  
[TypeDescriptorFlags simple type](#) 87  
[TypeDescriptorStruct complex type](#) 76  
[Version complex type](#) 80  
[MetadataException complex type](#) 71  
[MetadataObjectNotFoundExceptionState complex type](#) 71  
[MetadataObjectStruct complex type](#) 72  
[MethodInstanceStruct complex type](#) 73  
[MethodInstanceType simple type](#) 84  
[MethodStruct complex type](#) 73  
[ModelStruct complex type](#) 74

**N**

[Namespaces](#) 48  
[Normative references](#) 44

**O**

Operations  
[Activate](#) 111  
[AddAssociationReferenceToAssociationGroup](#) 114  
[AddEntityToModel](#) 118  
[BulkSwitchActiveOrValidate](#) 121  
[CheckPathInMethodInstances](#) 129  
[ClearLocalizedNames](#) 132  
[ClearProperties](#) 135  
[CopyAclAcrossChildren](#) 138  
[CopyAclAcrossChildrenForSetting](#) 141  
[CopyAclToSetting](#) 145  
[Deactivate](#) 148  
[Delete](#) 152  
[DeleteAssociationReferenceFromAssociationGroup](#) 156  
[DeleteDefaultValueForTypeDescriptor](#) 160  
[DeleteNoCascade](#) 163  
[DeleteProxyAssemblyForLobSystem](#) 167  
[EntityCreate](#) 171  
[ExportPackage](#) 174  
[GenerateProxyAssemblyForLobSystem](#) 178  
[GetAccessControlEntries](#) 181  
[GetActionById](#) 184  
[GetActionParameterById](#) 187  
[GetActionParametersForAction](#) 190  
[GetActionsForEntity](#) 194  
[GetAllLocalizedNames](#) 197  
[GetAllLocalizedNamesForMetadataObjectStruct](#) 200  
[GetAllPartitionIds](#) 204  
[GetAllProperties](#) 207  
[GetAllPropertiesForMetadataObjectStruct](#) 210  
[GetAssociationById](#) 213  
[GetAssociationGroupById](#) 216  
[GetAssociationGroupsForEntity](#) 220  
[GetAssociationMembersInRole](#) 223  
[GetAssociationReferencesForAssociationGroup](#) 228  
[GetAssociationsForDataClass](#) 231  
[GetAssociationsForEntityAndRole](#) 235  
[GetAssociationsForMethod](#) 238  
[GetCacheInvalidationRecordsSince](#) 241  
[GetChildTypeDescriptorsForTypeDescriptor](#) 245  
[GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor](#) 248  
[GetDataClassById](#) 252  
[GetDataClassesForSystem](#) 255  
[GetDefaultValuesForTypeDescriptor](#) 258  
[GetEntitiesForAssociationAndRole](#) 262  
[GetEntitiesForSystem](#) 265  
[GetEntitiesLikeNameAndNamespace](#) 268  
[GetEntitiesReferencedByModelId](#) 273  
[GetEntityById](#) 277  
[GetEntityCount](#) 280  
[GetEntityNameAndNamespacesForAssociationAndRole](#) 282  
[GetEntityWithNameAndNamespace](#) 286  
[GetEntityWithNameAndNamespaceAndVersion](#) 289  
[GetFieldTypeDescriptorsByMethodInstance](#) 293  
[GetFilterDescriptorById](#) 296  
[GetFilterDescriptorsForMethod](#) 300  
[GetIdentifierById](#) 303  
[GetIdentifiersForEntity](#) 306  
[GetImportProgress](#) 310  
[GetLevelForTypeDescriptor](#) 312  
[GetLobSystemAllAssembliesBytes](#) 315  
[GetLobSystemById](#) 319  
[GetLobSystemByName](#) 322  
[GetLobSystemDataByLobSystem](#) 325  
[GetLobSystemInstanceById](#) 328  
[GetLobSystemInstancesForLobSystem](#) 332

[GetLobSystemProxyAssemblyBytesByLobSystemId](#) 336  
[GetLobSystemsLikeName](#) 340  
[GetLobSystemsReferencedByEntitiesAssociatedWithModel](#) 343  
[GetMethodById](#) 347  
[GetMethodInstanceById](#) 350  
[GetMethodInstancesForDataClass](#) 353  
[GetMethodInstancesForMethod](#) 357  
[GetMethodsForDataClass](#) 360  
[GetModelById](#) 363  
[GetModelByName](#) 366  
[GetModelsByEntityId](#) 369  
[GetModelsByName](#) 372  
[GetParameterById](#) 375  
[GetParametersForMethod](#) 378  
[GetRootTypeDescriptorForParameter](#) 382  
[GetServiceApplicationId](#) 385  
[GetSystemUtilityTypeNameForLobSystem](#) 387  
[GetTypeDescriptorById](#) 390  
[GetTypeDescriptorsByNameAndLevelForParameter](#) 393  
[GetTypeDescriptorsForFilterDescriptor](#) 397  
[GetTypeReflectorTypeNameForParameter](#) 400  
[GetXmlSchemaForView](#) 403  
[HaveRights](#) 408  
[ImportPackage](#) 412  
[ImportPackageWithProgress](#) 418  
[IsMethodInstantiated](#) 425  
[IsParameterReferencedByMethodInstance](#) 428  
[MetadataObjectCreate](#) 431  
[MetadataObjectMergeXml](#) 439  
[MetadataObjectReadXml](#) 446  
[MetadataObjectWriteXml](#) 456  
[ModelReadXml](#) 462  
[ReadSlicedXml](#) 469  
[RemoveEntityFromModel](#) 472  
[RemoveLocalizedName](#) 475  
[RemoveProperty](#) 478  
[SaveLocalizedName](#) 481  
[SaveProperty](#) 484  
[SetAccessControlEntries](#) 487  
[SetDefaultActionForEntity](#) 491  
[SetDefaultValuesForTypeDescriptor](#) 494  
[SetLobSystemDataByLobSystemId](#) 497  
[TypeDescriptorCreate](#) 500  
[TypeDescriptorMergeXml](#) 504  
[TypeDescriptorReadXml](#) 508  
[Update](#) 515  
[WriteSlicedXml](#) 524  
[Overview \(synopsis\)](#) 45

## P

[PackageContents simple type](#) 85  
[PackageFormatExceptionState complex type](#) 74  
[Parameters - security index](#) 541  
[ParameterStruct complex type](#) 75  
[Preconditions](#) 46  
[Prerequisites](#) 46  
[Product behavior](#) 779  
[PropertyStruct complex type](#) 75  
 Protocol Details  
[overview](#) 89

[ProxyGenerationResult complex type](#) 76

## R

[Reading an Entity example](#) 534  
[Reading the security information of a MetadataObject example](#) 529  
[References](#) 44  
[informative](#) 45  
[normative](#) 44  
[Relationship to other protocols](#) 46

## S

Security  
[implementer considerations](#) 541  
[parameter index](#) 541  
 Sequencing rules  
[server](#) 94  
 Server  
[abstract data model](#) 89  
[Activate operation](#) 111  
[AddAssociationReferenceToAssociationGroup operation](#) 114  
[AddEntityToModel operation](#) 118  
[BulkSwitchActiveOrValidate operation](#) 121  
[CheckPathInMethodInstances operation](#) 129  
[ClearLocalizedNames operation](#) 132  
[ClearProperties operation](#) 135  
[CopyAclAcrossChildren operation](#) 138  
[CopyAclAcrossChildrenForSetting operation](#) 141  
[CopyAclToSetting operation](#) 145  
[Deactivate operation](#) 148  
[Delete operation](#) 152  
[DeleteAssociationReferenceFromAssociationGroup operation](#) 156  
[DeleteDefaultValueForTypeDescriptor operation](#) 160  
[DeleteNoCascade operation](#) 163  
[DeleteProxyAssemblyForLobSystem operation](#) 167  
[details](#) 89  
[EntityCreate operation](#) 171  
[ExportPackage operation](#) 174  
[GenerateProxyAssemblyForLobSystem operation](#) 178  
[GetAccessControlEntries operation](#) 181  
[GetActionById operation](#) 184  
[GetActionParameterById operation](#) 187  
[GetActionParametersForAction operation](#) 190  
[GetActionsForEntity operation](#) 194  
[GetAllLocalizedNames operation](#) 197  
[GetAllLocalizedNamesForMetadataObjectStruct operation](#) 200  
[GetAllPartitionIds operation](#) 204  
[GetAllProperties operation](#) 207  
[GetAllPropertiesForMetadataObjectStruct operation](#) 210  
[GetAssociationById operation](#) 213  
[GetAssociationGroupById operation](#) 216  
[GetAssociationGroupsForEntity operation](#) 220  
[GetAssociationMembersInRole operation](#) 223  
[GetAssociationReferencesForAssociationGroup operation](#) 228  
[GetAssociationsForDataClass operation](#) 231  
[GetAssociationsForEntityAndRole operation](#) 235



[GetAssociationsForMethod operation](#) 238  
[GetCacheInvalidationRecordsSince operation](#) 241  
[GetChildTypeDescriptorsForTypeDescriptor operation](#) 245  
     [GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor operation](#) 248  
[GetDataClassById operation](#) 252  
[GetDataClassesForSystem operation](#) 255  
[GetDefaultValuesForTypeDescriptor operation](#) 258  
[GetEntitiesForAssociationAndRole operation](#) 262  
[GetEntitiesForSystem operation](#) 265  
[GetEntitiesLikeNameAndNamespace operation](#) 268  
[GetEntitiesReferencedByModelId operation](#) 273  
[GetEntityById operation](#) 277  
[GetEntityCount operation](#) 280  
     [GetEntityNameAndNamespacesForAssociationAndRole operation](#) 282  
[GetEntityWithNameAndNamespace operation](#) 286  
[GetEntityWithNameAndNamespaceAndVersion operation](#) 289  
[GetFieldTypeDescriptorsByMethodInstance operation](#) 293  
[GetFilterDescriptorById operation](#) 296  
[GetFilterDescriptorsForMethod operation](#) 300  
[GetIdentifierById operation](#) 303  
[GetIdentifiersForEntity operation](#) 306  
[GetImportProgress operation](#) 310  
[GetLevelForTypeDescriptor operation](#) 312  
[GetLobSystemAllAssembliesBytes operation](#) 315  
[GetLobSystemById operation](#) 319  
[GetLobSystemByName operation](#) 322  
[GetLobSystemDataByLobSystem operation](#) 325  
[GetLobSystemInstanceById operation](#) 328  
[GetLobSystemInstancesForLobSystem operation](#) 332  
[GetLobSystemProxyAssemblyBytesByLobSystemId operation](#) 336  
[GetLobSystemsLikeName operation](#) 340  
     [GetLobSystemsReferencedByEntitiesAssociatedWithModel operation](#) 343  
[GetMethodById operation](#) 347  
[GetMethodInstanceById operation](#) 350  
[GetMethodInstancesForDataClass operation](#) 353  
[GetMethodInstancesForMethod operation](#) 357  
[GetMethodsForDataClass operation](#) 360  
[GetModelById operation](#) 363  
[GetModelByName operation](#) 366  
[GetModelsByEntityId operation](#) 369  
[GetModelsByName operation](#) 372  
[GetParameterById operation](#) 375  
[GetParametersForMethod operation](#) 378  
[GetRootTypeDescriptorForParameter operation](#) 382  
[GetServiceApplicationId operation](#) 385  
[GetSystemUtilityTypeNameForLobSystem operation](#) 387  
[GetTypeDescriptorById operation](#) 390  
[GetTypeDescriptorsByNameAndLevelForParameter operation](#) 393  
[GetTypeDescriptorsForFilterDescriptor operation](#) 397  
[GetTypeReflectorTypeNameForParameter operation](#) 400  
[GetXmlSchemaForView operation](#) 403  
[HaveRights operation](#) 408  
[ImportPackage operation](#) 412  
[ImportPackageWithProgress operation](#) 418  
[initialization](#) 94  
[IsMethodInstantiated operation](#) 425  
[IsParameterReferencedByMethodInstance operation](#) 428  
[local events](#) 526  
[message processing](#) 94  
[MetadataObjectCreate operation](#) 431  
[MetadataObjectMergeXml operation](#) 439  
[MetadataObjectReadXml operation](#) 446  
[MetadataObjectWriteXml operation](#) 456  
[ModelReadXml operation](#) 462  
[ReadSlicedXml operation](#) 469  
[RemoveEntityFromModel operation](#) 472  
[RemoveLocalizedName operation](#) 475  
[RemoveProperty operation](#) 478  
[SaveLocalizedName operation](#) 481  
[SaveProperty operation](#) 484  
[sequencing rules](#) 94  
[SetAccessControlEntries operation](#) 487  
[SetDefaultActionForEntity operation](#) 491  
[SetDefaultValuesForTypeDescriptor operation](#) 494  
[SetLobSystemDataByLobSystemId operation](#) 497  
[timer events](#) 526  
[timers](#) 94  
[TypeDescriptorCreate operation](#) 500  
[TypeDescriptorMergeXml operation](#) 504  
[TypeDescriptorReadXml operation](#) 508  
[Update operation](#) 515  
[WriteSlicedXml operation](#) 524  
[Setting the security information of a MetadataObject example](#) 528  
[Simple types](#) 80  
     [CacheUsage](#) 81  
     [char](#) 81  
     [DirectionType](#) 81  
     [duration](#) 82  
     [FilterType](#) 82  
     [guid](#) 84  
     [MethodInstanceType](#) 84  
     [PackageContents](#) 85  
     [SystemType](#) 86  
     [TypeDescriptorFlags](#) 87  
[Standards assignments](#) 47  
[Syntax](#)  
     [messages - overview](#) 48  
     [SystemException complex type](#) 76  
     [SystemType simple type](#) 86  
**T**  
[Timer events](#)  
     [server](#) 526  
[Timers](#)  
     [server](#) 94  
[Tracking changes](#) 788  
[Transport](#) 48  
[TypeDescriptorFlags simple type](#) 87  
[TypeDescriptorStruct complex type](#) 76  
[Types](#)  
     [complex](#) 49  
     [simple](#) 80

## U

[Updating an Entity example](#) 538

## V

[Vendor-extensible fields](#) 47

[Version complex type](#) 80

[Versioning](#) 46

## W

[WSDL](#) 542

## X

[XML schema](#) 733

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure> Schema 733

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel> Schema 734

<http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema 736

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants> Schema 736

<http://schemas.datacontract.org/2004/07/System> Schema 748

<http://schemas.microsoft.com/2003/10/Serialization/> Schema 747

<http://schemas.microsoft.com/2003/10/Serialization/Arrays> Schema 747

<http://www.microsoft.com/Office/2009/BusinessDataCatalog> Schema 749

[Microsoft.BusinessData.SharePoint](#) Schema 736

[Microsoft.SharePoint.BusinessData](#) Schema 737