[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 for protocols, file formats, languages, standards as well as overviews of the interaction among each of these technologies.
- **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 may make copies of it in order to develop implementations of the technologies described in the Open Specifications and may distribute portions of it in your implementations using these technologies or your documentation as necessary to properly document the implementation. You may also distribute in your implementation, with or without modification, any schema, IDL's, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications.
- **No Trade Secrets**. Microsoft does not claim any trade secret rights in this documentation.
- **Patents**. Microsoft has patents that may cover your implementations of the technologies described in the Open Specifications. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, a given Open Specification may be covered by Microsoft Open Specification Promise or the Community Promise. If you would prefer a written license, or if the technologies described in the Open Specifications are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **Trademarks**. The names of companies and products contained in this documentation may be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit www.microsoft.com/trademarks.
- **Fictitious Names**. The example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events 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 specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications do 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 are intended for use in conjunction with publicly available standard specifications and network programming art, and assumes that the reader either is familiar with the aforementioned material or has immediate access to it.

Copyright © 2016 Microsoft Corporation

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

Copyright © 2016 Microsoft Corporation

Date	Revision History	Revision Class	Comments
			technical content.
3/16/2015	3.0	Major	Significantly changed the technical content.
2/26/2016	4.0	Major	Significantly changed the technical content.

Copyright © 2016 Microsoft Corporation

Table of Contents

1 Introduction 36
1.1 Glossary 36
1.2 References 43
1.2.1 Normative References 43
1.2.2 Informative References 44
1.3 Protocol Overview (Synopsis) 44
1.4 Relationship to Other Protocols 45
1.5 Prerequisites/Preconditions 45
1.6 Applicability Statement 45
1.7 Versioning and Capability Negotiation 45
1.8 Vendor-Extensible Fields 46
1.9 Standards Assignments 46

2 Messages 47
2.1 Transport 47
2.2 Common Message Syntax 47
2.2.1 Namespaces 47
2.2.2 Messages 48
2.2.3 Elements 48
2.2.4 Complex Types 48
2.2.4.1 AccessControlEntryStruct 52
2.2.4.2 AccessDeniedException 53
2.2.4.3 AccessDeniedExceptionState 53
2.2.4.4 ActionParameterStruct 54
2.2.4.5 ActionStruct 54
2.2.4.6 AdministrationMetadataCatalogStruct 55
2.2.4.7 ArgumentException 55
2.2.4.8 ArgumentNullException 55
2.2.4.9 ArgumentOutOfRangeException 56
2.2.4.10 ArrayOfAccessControlEntryStruct 56
2.2.4.11 ArrayOfAssociationStruct 56
2.2.4.12 ArrayOfEntityStruct 56
2.2.4.13 ArrayOfLobSystemStruct 57
2.2.4.14 ArrayOfLocalizedNameStruct 57
2.2.4.15 ArrayOfMethodInstanceStruct 57
2.2.4.16 ArrayOfModelStruct 58
2.2.4.17 ArrayOfPropertyStruct 58
2.2.4.18 ArrayOfstring 58
2.2.4.19 ArrayOfTypeDescriptorStruct 58
2.2.4.20 ArrayOfunsignedInt 59
2.2.4.21 AssociationGroupStruct 59
2.2.4.22 AssociationReferenceStruct 60
2.2.4.23 AssociationStruct 61
2.2.4.24 BdcException 62
2.2.4.25 BdcExceptionState 62
2.2.4.26 ComplexValueStruct 62
2.2.4.27 ConcurrentModificationExceptionState 63
2.2.4.28 DataClassStruct 63
2.2.4.29 DefaultValueStruct 64
2.2.4.30 DuplicateMetadataObjectExceptionState 64
2.2.4.31 EntityStruct 65
2.2.4.32 ExceededMetadataObjectLimitExceptionState 65
2.2.4.33 Exception 66
2.2.4.34 FilterDescriptorStruct 66
2.2.4.35 IdentifierStruct 66

Copyright © 2016 Microsoft Corporation

2.2.4.36 InvalidMetadataObjectExceptionState 68
2.2.4.37 InvalidMetadataPropertyExceptionState 68
2.2.4.38 InvalidOperationException 68
2.2.4.39 LobSystemInstanceStruct 69
2.2.4.40 LobSystemStruct 69
2.2.4.41 LocalizedNameStruct 69
2.2.4.42 MetadataException 70
2.2.4.43 MetadataObjectNotFoundExceptionState 70
2.2.4.44 MetadataObjectStruct 71
2.2.4.45 MethodInstanceStruct 72
2.2.4.46 MethodStruct 72
2.2.4.47 ModelStruct 73
2.2.4.48 PackageFormatExceptionState 73
2.2.4.49 ParameterStruct 74
2.2.4.50 PropertyStruct 74
2.2.4.51 ProxyGenerationResult 75
2.2.4.52 SystemException 75
2.2.4.53 TypeDescriptorStruct 75
2.2.4.54 Version 79
2.2.5 Simple Types 79
2.2.5.1 CacheUsage 80
2.2.5.2 char 80
2.2.5.3 DirectionType 80
2.2.5.4 duration 81
2.2.5.5 FilterType 81
2.2.5.6 guid 83
2.2.5.7 MethodInstanceType 83
2.2.5.8 PackageContents 84
2.2.5.9 SystemType 85
2.2.5.10 TypeDescriptorFlags 86
2.2.6 Attributes 87
2.2.7 Groups 87
2.2.8 Attribute Groups 87

3 Protocol Details 88
3.1 Server Details 88
3.1.1 Abstract Data Model 88
3.1.2 Timers 93
3.1.3 Initialization 93
3.1.4 Message Processing Events and Sequencing Rules 93
3.1.4.1 Activate 110
3.1.4.1.1 Messages 111
3.1.4.1.1.1 BusinessDataCatalogSharedService_Activate_InputMessage 112
3.1.4.1.1.2 BusinessDataCatalogSharedService_Activate_OutputMessage 112
3.1.4.1.2 Elements 112
3.1.4.1.2.1 Activate 112
3.1.4.1.2.2 ActivateResponse 112
3.1.4.1.3 Complex Types 113
3.1.4.1.4 Simple Types 113
3.1.4.1.5 Attributes 113
3.1.4.1.6 Groups 113
3.1.4.1.7 Attribute Groups 113
3.1.4.2 AddAssociationReferenceToAssociationGroup 113
3.1.4.2.1 Messages 115
3.1.4.2.1.1 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage 115

Copyright © 2016 Microsoft Corporation

3.1.4.2.1.2 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage 115
3.1.4.2.2 Elements 115
3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup 116
3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse 116
3.1.4.2.3 Complex Types 116
3.1.4.2.4 Simple Types 116
3.1.4.2.5 Attributes 117
3.1.4.2.6 Groups 117
3.1.4.2.7 Attribute Groups 117
3.1.4.3 AddEntityToModel 117
3.1.4.3.1 Messages 118
3.1.4.3.1.1 BusinessDataCatalogSharedService_AddEntityToModel_InputMessage 118
3.1.4.3.1.2 BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage 118
3.1.4.3.2 Elements 118
3.1.4.3.2.1 AddEntityToModel 119
3.1.4.3.2.2 AddEntityToModelResponse 119
3.1.4.3.3 Complex Types 119
3.1.4.3.4 Simple Types 119
3.1.4.3.5 Attributes 119
3.1.4.3.6 Groups 119
3.1.4.3.7 Attribute Groups 119
3.1.4.4 BulkSwitchActiveOrValidate 120
3.1.4.4.1 Messages 121
3.1.4.4.1.1 BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage 121
3.1.4.4.1.2 BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage 122
3.1.4.4.2 Elements 122
3.1.4.4.2.1 BulkSwitchActiveOrValidate 122
3.1.4.4.2.2 BulkSwitchActiveOrValidateResponse 123
3.1.4.4.3 Complex Types 123
3.1.4.4.3.1 ArrayOfActivationErrorRecordStruct 123
3.1.4.4.3.2 ActivationErrorRecordStruct 124
3.1.4.4.4 Simple Types 127
3.1.4.4.5 Attributes 127
3.1.4.4.6 Groups 127
3.1.4.4.7 Attribute Groups 128
3.1.4.5 CheckPathInMethodInstances 128
3.1.4.5.1 Messages 129
3.1.4.5.1.1 BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage 129
3.1.4.5.1.2 BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage 129
3.1.4.5.2 Elements 129
3.1.4.5.2.1 CheckPathInMethodInstances 130
3.1.4.5.2.2 CheckPathInMethodInstancesResponse 130
3.1.4.5.3 Complex Types 131
3.1.4.5.4 Simple Types 131
3.1.4.5.5 Attributes 131
3.1.4.5.6 Groups 131

Copyright © 2016 Microsoft Corporation

3.1.4.5.7 Attribute Groups....131
3.1.4.6 ClearLocalizedNames....131
3.1.4.6.1 Messages....132
3.1.4.6.1.1 BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage....133
3.1.4.6.1.2 BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage....133
3.1.4.6.2 Elements....133
3.1.4.6.2.1 ClearLocalizedNames....133
3.1.4.6.2.2 ClearLocalizedNamesResponse....133
3.1.4.6.3 Complex Types....134
3.1.4.6.4 Simple Types....134
3.1.4.6.5 Attributes....134
3.1.4.6.6 Groups....134
3.1.4.6.7 Attribute Groups....134
3.1.4.7 ClearProperties....134
3.1.4.7.1 Messages....135
3.1.4.7.1.1 BusinessDataCatalogSharedService_ClearProperties_InputMessage 135
3.1.4.7.1.2 BusinessDataCatalogSharedService_ClearProperties_OutputMessage136
3.1.4.7.2 Elements....136
3.1.4.7.2.1 ClearProperties....136
3.1.4.7.2.2 ClearPropertiesResponse....136
3.1.4.7.3 Complex Types....136
3.1.4.7.4 Simple Types....137
3.1.4.7.5 Attributes....137
3.1.4.7.6 Groups....137
3.1.4.7.7 Attribute Groups....137
3.1.4.8 CopyAclAcrossChildren....137
3.1.4.8.1 Messages....138
3.1.4.8.1.1 BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage....139
3.1.4.8.1.2 BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage....139
3.1.4.8.2 Elements....139
3.1.4.8.2.1 CopyAclAcrossChildren....139
3.1.4.8.2.2 CopyAclAcrossChildrenResponse....140
3.1.4.8.3 Complex Types....140
3.1.4.8.4 Simple Types....140
3.1.4.8.5 Attributes....140
3.1.4.8.6 Groups....140
3.1.4.8.7 Attribute Groups....140
3.1.4.9 CopyAclAcrossChildrenForSetting....140
3.1.4.9.1 Messages....142
3.1.4.9.1.1 BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage....142
3.1.4.9.1.2 BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage....142
3.1.4.9.2 Elements....142
3.1.4.9.2.1 CopyAclAcrossChildrenForSetting....143
3.1.4.9.2.2 CopyAclAcrossChildrenForSettingResponse....143
3.1.4.9.3 Complex Types....143
3.1.4.9.4 Simple Types....143

Copyright © 2016 Microsoft Corporation

3.1.4.9.5 Attributes 143
3.1.4.9.6 Groups 143
3.1.4.9.7 Attribute Groups 143
3.1.4.10 CopyAclToSetting 144
3.1.4.10.1 Messages 145
3.1.4.10.1.1 BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage 145
3.1.4.10.1.2 BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage 145
3.1.4.10.2 Elements 145
3.1.4.10.2.1 CopyAclToSetting 146
3.1.4.10.2.2 CopyAclToSettingResponse 146
3.1.4.10.3 Complex Types 146
3.1.4.10.4 Simple Types 146
3.1.4.10.5 Attributes 146
3.1.4.10.6 Groups 146
3.1.4.10.7 Attribute Groups 146
3.1.4.11 Deactivate 147
3.1.4.11.1 Messages 149
3.1.4.11.1.1 BusinessDataCatalogSharedService_Deactivate_InputMessage 149
3.1.4.11.1.2 BusinessDataCatalogSharedService_Deactivate_OutputMessage 149
3.1.4.11.2 Elements 149
3.1.4.11.2.1 Deactivate 150
3.1.4.11.2.2 DeactivateResponse 150
3.1.4.11.3 Complex Types 150
3.1.4.11.4 Simple Types 150
3.1.4.11.5 Attributes 150
3.1.4.11.6 Groups 150
3.1.4.11.7 Attribute Groups 150
3.1.4.12 Delete 151
3.1.4.12.1 Messages 153
3.1.4.12.1.1 BusinessDataCatalogSharedService_Delete_InputMessage 153
3.1.4.12.1.2 BusinessDataCatalogSharedService_Delete_OutputMessage 153
3.1.4.12.2 Elements 154
3.1.4.12.2.1 Delete 154
3.1.4.12.2.2 DeleteResponse 154
3.1.4.12.3 Complex Types 154
3.1.4.12.4 Simple Types 154
3.1.4.12.5 Attributes 154
3.1.4.12.6 Groups 154
3.1.4.12.7 Attribute Groups 154
3.1.4.13 DeleteAssociationReferenceFromAssociationGroup 155
3.1.4.13.1 Messages 157
3.1.4.13.1.1 BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage 157
3.1.4.13.1.2 BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage 157
3.1.4.13.2 Elements 157
3.1.4.13.2.1 DeleteAssociationReferenceFromAssociationGroup 158
3.1.4.13.2.2 DeleteAssociationReferenceFromAssociationGroupResponse 158
3.1.4.13.3 Complex Types 158
3.1.4.13.4 Simple Types 158
3.1.4.13.5 Attributes 158
3.1.4.13.6 Groups 159
3.1.4.13.7 Attribute Groups 159
3.1.4.14 DeleteDefaultValueForTypeDescriptor 159

Copyright © 2016 Microsoft Corporation

3.1.4.14.1 Messages 160
3.1.4.14.1.1 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage 161
3.1.4.14.1.2 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage 161
3.1.4.14.2 Elements 161
3.1.4.14.2.1 DeleteDefaultValueForTypeDescriptor 161
3.1.4.14.2.2 DeleteDefaultValueForTypeDescriptorResponse 162
3.1.4.14.3 Complex Types 162
3.1.4.14.4 Simple Types 162
3.1.4.14.5 Attributes 162
3.1.4.14.6 Groups 162
3.1.4.14.7 Attribute Groups 162
3.1.4.15 DeleteNoCascade 162
3.1.4.15.1 Messages 164
3.1.4.15.1.1 BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage 165
3.1.4.15.1.2 BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage 165
3.1.4.15.2 Elements 165
3.1.4.15.2.1 DeleteNoCascade 165
3.1.4.15.2.2 DeleteNoCascadeResponse 165
3.1.4.15.3 Complex Types 166
3.1.4.15.4 Simple Types 166
3.1.4.15.5 Attributes 166
3.1.4.15.6 Groups 166
3.1.4.15.7 Attribute Groups 166
3.1.4.16 DeleteProxyAssemblyForLobSystem 166
3.1.4.16.1 Messages 167
3.1.4.16.1.1 BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage 168
3.1.4.16.1.2 BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage 168
3.1.4.16.2 Elements 168
3.1.4.16.2.1 DeleteProxyAssemblyForLobSystem 168
3.1.4.16.2.2 DeleteProxyAssemblyForLobSystemResponse 169
3.1.4.16.3 Complex Types 169
3.1.4.16.4 Simple Types 169
3.1.4.16.5 Attributes 169
3.1.4.16.6 Groups 169
3.1.4.16.7 Attribute Groups 169
3.1.4.17 EntityCreate 169
3.1.4.17.1 Messages 171
3.1.4.17.1.1 BusinessDataCatalogSharedService_EntityCreate_InputMessage 171
3.1.4.17.1.2 BusinessDataCatalogSharedService_EntityCreate_OutputMessage ..171
3.1.4.17.2 Elements 171
3.1.4.17.2.1 EntityCreate 172
3.1.4.17.2.2 EntityCreateResponse 172
3.1.4.17.3 Complex Types 172
3.1.4.17.4 Simple Types 172
3.1.4.17.5 Attributes 172
3.1.4.17.6 Groups 172
3.1.4.17.7 Attribute Groups 172
3.1.4.18 ExportPackage 173

Copyright © 2016 Microsoft Corporation

3.1.4.18.1 Messages 174
3.1.4.18.1.1 BusinessDataCatalogSharedService_ExportPackage_InputMessage .174
3.1.4.18.1.2 BusinessDataCatalogSharedService_ExportPackage_OutputMessage175
3.1.4.18.2 Elements 175
3.1.4.18.2.1 ExportPackage 175
3.1.4.18.2.2 ExportPackageResponse 176
3.1.4.18.3 Complex Types 176
3.1.4.18.4 Simple Types 176
3.1.4.18.5 Attributes 176
3.1.4.18.6 Groups 176
3.1.4.18.7 Attribute Groups 176
3.1.4.19 GenerateProxyAssemblyForLobSystem 176
3.1.4.19.1 Messages 178
3.1.4.19.1.1 BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage 178
3.1.4.19.1.2 BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage 178
3.1.4.19.2 Elements 178
3.1.4.19.2.1 GenerateProxyAssemblyForLobSystem 178
3.1.4.19.2.2 GenerateProxyAssemblyForLobSystemResponse 179
3.1.4.19.3 Complex Types 179
3.1.4.19.4 Simple Types 179
3.1.4.19.5 Attributes 179
3.1.4.19.6 Groups 179
3.1.4.19.7 Attribute Groups 179
3.1.4.20 GetAccessControlEntries 179
3.1.4.20.1 Messages 181
3.1.4.20.1.1 BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage 181
3.1.4.20.1.2 BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage 181
3.1.4.20.2 Elements 181
3.1.4.20.2.1 GetAccessControlEntries 182
3.1.4.20.2.2 GetAccessControlEntriesResponse 182
3.1.4.20.3 Complex Types 182
3.1.4.20.4 Simple Types 182
3.1.4.20.5 Attributes 182
3.1.4.20.6 Groups 183
3.1.4.20.7 Attribute Groups 183
3.1.4.21 GetActionById 183
3.1.4.21.1 Messages 184
3.1.4.21.1.1 BusinessDataCatalogSharedService_GetActionById_InputMessage ..184
3.1.4.21.1.2 BusinessDataCatalogSharedService_GetActionById_OutputMessage184
3.1.4.21.2 Elements 184
3.1.4.21.2.1 GetActionById 185
3.1.4.21.2.2 GetActionByIdResponse 185
3.1.4.21.3 Complex Types 185
3.1.4.21.4 Simple Types 185
3.1.4.21.5 Attributes 185
3.1.4.21.6 Groups 185
3.1.4.21.7 Attribute Groups 185
3.1.4.22 GetActionParameterById 186
3.1.4.22.1 Messages 187

Copyright © 2016 Microsoft Corporation

3.1.4.22.1.1 BusinessDataCatalogSharedService_GetActionParameterById_InputMessage 187
3.1.4.22.1.2 BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage 187
3.1.4.22.2 Elements 187
3.1.4.22.2.1 GetActionParameterById 188
3.1.4.22.2.2 GetActionParameterByIdResponse 188
3.1.4.22.3 Complex Types 188
3.1.4.22.4 Simple Types 188
3.1.4.22.5 Attributes 188
3.1.4.22.6 Groups 188
3.1.4.22.7 Attribute Groups 189
3.1.4.23 GetActionParametersForAction 189
3.1.4.23.1 Messages 190
3.1.4.23.1.1 BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage 190
3.1.4.23.1.2 BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage 190
3.1.4.23.2 Elements 190
3.1.4.23.2.1 GetActionParametersForAction 191
3.1.4.23.2.2 GetActionParametersForActionResponse 191
3.1.4.23.3 Complex Types 191
3.1.4.23.3.1 ArrayOfActionParameterStruct 192
3.1.4.23.4 Simple Types 192
3.1.4.23.5 Attributes 192
3.1.4.23.6 Groups 192
3.1.4.23.7 Attribute Groups 192
3.1.4.24 GetActionsForEntity 192
3.1.4.24.1 Messages 193
3.1.4.24.1.1 BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage 193
3.1.4.24.1.2 BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage 194
3.1.4.24.2 Elements 194
3.1.4.24.2.1 GetActionsForEntity 194
3.1.4.24.2.2 GetActionsForEntityResponse 194
3.1.4.24.3 Complex Types 195
3.1.4.24.3.1 ArrayOfActionStruct 195
3.1.4.24.4 Simple Types 195
3.1.4.24.5 Attributes 195
3.1.4.24.6 Groups 195
3.1.4.24.7 Attribute Groups 195
3.1.4.25 GetAllLocalizedNames 195
3.1.4.25.1 Messages 196
3.1.4.25.1.1 BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage 197
3.1.4.25.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage 197
3.1.4.25.2 Elements 197
3.1.4.25.2.1 GetAllLocalizedNames 197
3.1.4.25.2.2 GetAllLocalizedNamesResponse 198

Copyright © 2016 Microsoft Corporation

3.1.4.25.3 Complex Types 198
3.1.4.25.4 Simple Types 198
3.1.4.25.5 Attributes 198
3.1.4.25.6 Groups 199
3.1.4.25.7 Attribute Groups 199
3.1.4.26 GetAllLocalizedNamesForMetadataObjectStruct 199
3.1.4.26.1 Messages 200
3.1.4.26.1.1 BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage 200
3.1.4.26.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage 201
3.1.4.26.2 Elements 201
3.1.4.26.2.1 GetAllLocalizedNamesForMetadataObjectStruct 201
3.1.4.26.2.2 GetAllLocalizedNamesForMetadataObjectStructResponse 202
3.1.4.26.3 Complex Types 202
3.1.4.26.4 Simple Types 202
3.1.4.26.5 Attributes 202
3.1.4.26.6 Groups 202
3.1.4.26.7 Attribute Groups 202
3.1.4.27 GetAllPartitionIds 202
3.1.4.27.1 Messages 203
3.1.4.27.1.1 BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage 203
3.1.4.27.1.2 BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage 203
3.1.4.27.2 Elements 203
3.1.4.27.2.1 GetAllPartitionIds 204
3.1.4.27.2.2 GetAllPartitionIdsResponse 204
3.1.4.27.3 Complex Types 204
3.1.4.27.3.1 ArrayOfguid 204
3.1.4.27.4 Simple Types 205
3.1.4.27.5 Attributes 205
3.1.4.27.6 Groups 205
3.1.4.27.7 Attribute Groups 205
3.1.4.28 GetAllProperties 205
3.1.4.28.1 Messages 206
3.1.4.28.1.1 BusinessDataCatalogSharedService_GetAllProperties_InputMessage 206
3.1.4.28.1.2 BusinessDataCatalogSharedService_GetAllProperties_OutputMessage 207
3.1.4.28.2 Elements 207
3.1.4.28.2.1 GetAllProperties 207
3.1.4.28.2.2 GetAllPropertiesResponse 207
3.1.4.28.3 Complex Types 208
3.1.4.28.4 Simple Types 208
3.1.4.28.5 Attributes 208
3.1.4.28.6 Groups 208
3.1.4.28.7 Attribute Groups 208
3.1.4.29 GetAllPropertiesForMetadataObjectStruct 208
3.1.4.29.1 Messages 209
3.1.4.29.1.1 BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage 210
3.1.4.29.1.2 BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage 210
3.1.4.29.2 Elements 210

Copyright © 2016 Microsoft Corporation

3.1.4.29.2.1 GetAllPropertiesForMetadataObjectStruct 210
3.1.4.29.2.2 GetAllPropertiesForMetadataObjectStructResponse 211
3.1.4.29.3 Complex Types 211
3.1.4.29.4 Simple Types 211
3.1.4.29.5 Attributes 211
3.1.4.29.6 Groups 211
3.1.4.29.7 Attribute Groups 211
3.1.4.30 GetAssociationById 212
3.1.4.30.1 Messages 213
3.1.4.30.1.1 BusinessDataCatalogSharedService_GetAssociationById_InputMessage 213
3.1.4.30.1.2 BusinessDataCatalogSharedService_GetAssociationById_OutputMessage 213
3.1.4.30.2 Elements 213
3.1.4.30.2.1 GetAssociationById 213
3.1.4.30.2.2 GetAssociationByIdResponse 214
3.1.4.30.3 Complex Types 214
3.1.4.30.4 Simple Types 214
3.1.4.30.5 Attributes 214
3.1.4.30.6 Groups 214
3.1.4.30.7 Attribute Groups 214
3.1.4.31 GetAssociationGroupById 215
3.1.4.31.1 Messages 216
3.1.4.31.1.1 BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage 216
3.1.4.31.1.2 BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage 216
3.1.4.31.2 Elements 216
3.1.4.31.2.1 GetAssociationGroupById 217
3.1.4.31.2.2 GetAssociationGroupByIdResponse 217
3.1.4.31.3 Complex Types 217
3.1.4.31.4 Simple Types 217
3.1.4.31.5 Attributes 217
3.1.4.31.6 Groups 217
3.1.4.31.7 Attribute Groups 218
3.1.4.32 GetAssociationGroupsForEntity 218
3.1.4.32.1 Messages 219
3.1.4.32.1.1 BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage 219
3.1.4.32.1.2 BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage 219
3.1.4.32.2 Elements 219
3.1.4.32.2.1 GetAssociationGroupsForEntity 220
3.1.4.32.2.2 GetAssociationGroupsForEntityResponse 220
3.1.4.32.3 Complex Types 220
3.1.4.32.3.1 ArrayOfAssociationGroupStruct 221
3.1.4.32.4 Simple Types 221
3.1.4.32.5 Attributes 221
3.1.4.32.6 Groups 221
3.1.4.32.7 Attribute Groups 221
3.1.4.33 GetAssociationMembersInRole 221
3.1.4.33.1 Messages 222

Copyright © 2016 Microsoft Corporation

3.1.4.33.1.1 BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage 223
3.1.4.33.1.2 BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage....223
3.1.4.33.2 Elements....223
3.1.4.33.2.1 GetAssociationMembersInRole....223
3.1.4.33.2.2 GetAssociationMembersInRoleResponse....224
3.1.4.33.3 Complex Types....224
3.1.4.33.3.1 ArrayOfAssociationMemberStruct....224
3.1.4.33.3.2 AssociationMemberStruct....225
3.1.4.33.4 Simple Types....225
3.1.4.33.5 Attributes....225
3.1.4.33.6 Groups....226
3.1.4.33.7 Attribute Groups....226
3.1.4.34 GetAssociationReferencesForAssociationGroup....226
3.1.4.34.1 Messages....227
3.1.4.34.1.1 BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage....227
3.1.4.34.1.2 BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage....227
3.1.4.34.2 Elements....228
3.1.4.34.2.1 GetAssociationReferencesForAssociationGroup....228
3.1.4.34.2.2 GetAssociationReferencesForAssociationGroupResponse....228
3.1.4.34.3 Complex Types....229
3.1.4.34.3.1 ArrayOfAssociationReferenceStruct....229
3.1.4.34.4 Simple Types....229
3.1.4.34.5 Attributes....229
3.1.4.34.6 Groups....229
3.1.4.34.7 Attribute Groups....229
3.1.4.35 GetAssociationsForDataClass....229
3.1.4.35.1 Messages....231
3.1.4.35.1.1 BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage....231
3.1.4.35.1.2 BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage....231
3.1.4.35.2 Elements....231
3.1.4.35.2.1 GetAssociationsForDataClass....231
3.1.4.35.2.2 GetAssociationsForDataClassResponse....232
3.1.4.35.3 Complex Types....232
3.1.4.35.4 Simple Types....232
3.1.4.35.5 Attributes....232
3.1.4.35.6 Groups....232
3.1.4.35.7 Attribute Groups....232
3.1.4.36 GetAssociationsForEntityAndRole....232
3.1.4.36.1 Messages....234
3.1.4.36.1.1 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage....234
3.1.4.36.1.2 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage....234
3.1.4.36.2 Elements....234

Copyright © 2016 Microsoft Corporation

3.1.4.36.2.1 GetAssociationsForEntityAndRole 235
3.1.4.36.2.2 GetAssociationsForEntityAndRoleResponse 235
3.1.4.36.3 Complex Types 236
3.1.4.36.4 Simple Types 236
3.1.4.36.5 Attributes 236
3.1.4.36.6 Groups 236
3.1.4.36.7 Attribute Groups 236
3.1.4.37 GetAssociationsForMethod 236
3.1.4.37.1 Messages 237
3.1.4.37.1.1 BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage 238
3.1.4.37.1.2 BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage 238
3.1.4.37.2 Elements 238
3.1.4.37.2.1 GetAssociationsForMethod 238
3.1.4.37.2.2 GetAssociationsForMethodResponse 239
3.1.4.37.3 Complex Types 239
3.1.4.37.4 Simple Types 239
3.1.4.37.5 Attributes 239
3.1.4.37.6 Groups 239
3.1.4.37.7 Attribute Groups 239
3.1.4.38 GetCacheInvalidationRecordsSince 239
3.1.4.38.1 Messages 240
3.1.4.38.1.1 BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage 241
3.1.4.38.1.2 BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage 241
3.1.4.38.2 Elements 241
3.1.4.38.2.1 GetCacheInvalidationRecordsSince 241
3.1.4.38.2.2 GetCacheInvalidationRecordsSinceResponse 241
3.1.4.38.3 Complex Types 242
3.1.4.38.3.1 ArrayOfCacheInvalidationRecordStruct 242
3.1.4.38.3.2 CacheInvalidationRecordStruct 242
3.1.4.38.4 Simple Types 243
3.1.4.38.5 Attributes 243
3.1.4.38.6 Groups 243
3.1.4.38.7 Attribute Groups 243
3.1.4.39 GetChildTypeDescriptorsForTypeDescriptor 243
3.1.4.39.1 Messages 244
3.1.4.39.1.1 BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage 244
3.1.4.39.1.2 BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage 245
3.1.4.39.2 Elements 245
3.1.4.39.2.1 GetChildTypeDescriptorsForTypeDescriptor 245
3.1.4.39.2.2 GetChildTypeDescriptorsForTypeDescriptorResponse 245
3.1.4.39.3 Complex Types 246
3.1.4.39.4 Simple Types 246
3.1.4.39.5 Attributes 246
3.1.4.39.6 Groups 246
3.1.4.39.7 Attribute Groups 246
3.1.4.40 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor 246

Copyright © 2016 Microsoft Corporation

3.1.4.40.1 Messages 248
3.1.4.40.1.1 BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage 248
3.1.4.40.1.2 BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage 248
3.1.4.40.2 Elements 248
3.1.4.40.2.1 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor 249
3.1.4.40.2.2 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse 249
3.1.4.40.3 Complex Types 249
3.1.4.40.4 Simple Types 249
3.1.4.40.5 Attributes 249
3.1.4.40.6 Groups 249
3.1.4.40.7 Attribute Groups 249
3.1.4.41 GetDataClassById 249
3.1.4.41.1 Messages 251
3.1.4.41.1.1 BusinessDataCatalogSharedService_GetDataClassById_InputMessage 251
3.1.4.41.1.2 BusinessDataCatalogSharedService_GetDataClassById_OutputMessage 251
3.1.4.41.2 Elements 251
3.1.4.41.2.1 GetDataClassById 251
3.1.4.41.2.2 GetDataClassByIdResponse 252
3.1.4.41.3 Complex Types 252
3.1.4.41.4 Simple Types 252
3.1.4.41.5 Attributes 252
3.1.4.41.6 Groups 252
3.1.4.41.7 Attribute Groups 252
3.1.4.42 GetDataClassesForSystem 253
3.1.4.42.1 Messages 254
3.1.4.42.1.1 BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage 254
3.1.4.42.1.2 BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage 254
3.1.4.42.2 Elements 254
3.1.4.42.2.1 GetDataClassesForSystem 255
3.1.4.42.2.2 GetDataClassesForSystemResponse 255
3.1.4.42.3 Complex Types 255
3.1.4.42.3.1 ArrayOfDataClassStruct 255
3.1.4.42.4 Simple Types 256
3.1.4.42.5 Attributes 256
3.1.4.42.6 Groups 256
3.1.4.42.7 Attribute Groups 256
3.1.4.43 GetDefaultValuesForTypeDescriptor 256
3.1.4.43.1 Messages 257
3.1.4.43.1.1 BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage 258
3.1.4.43.1.2 BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage 258
3.1.4.43.2 Elements 258
3.1.4.43.2.1 GetDefaultValuesForTypeDescriptor 258
3.1.4.43.2.2 GetDefaultValuesForTypeDescriptorResponse 258
3.1.4.43.3 Complex Types 259

Copyright © 2016 Microsoft Corporation

3.1.4.43.3.1 ArrayOfDefaultValueStruct 259
3.1.4.43.4 Simple Types 259
3.1.4.43.5 Attributes 259
3.1.4.43.6 Groups 259
3.1.4.43.7 Attribute Groups 259
3.1.4.44 GetEntitiesForAssociationAndRole 260
3.1.4.44.1 Messages 261
3.1.4.44.1.1 BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage 261
3.1.4.44.1.2 BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage 261
3.1.4.44.2 Elements 261
3.1.4.44.2.1 GetEntitiesForAssociationAndRole 262
3.1.4.44.2.2 GetEntitiesForAssociationAndRoleResponse 262
3.1.4.44.3 Complex Types 263
3.1.4.44.4 Simple Types 263
3.1.4.44.5 Attributes 263
3.1.4.44.6 Groups 263
3.1.4.44.7 Attribute Groups 263
3.1.4.45 GetEntitiesForSystem 263
3.1.4.45.1 Messages 264
3.1.4.45.1.1 BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage 264
3.1.4.45.1.2 BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage 265
3.1.4.45.2 Elements 265
3.1.4.45.2.1 GetEntitiesForSystem 265
3.1.4.45.2.2 GetEntitiesForSystemResponse 265
3.1.4.45.3 Complex Types 266
3.1.4.45.4 Simple Types 266
3.1.4.45.5 Attributes 266
3.1.4.45.6 Groups 266
3.1.4.45.7 Attribute Groups 266
3.1.4.46 GetEntitiesLikeNameAndNamespace 266
3.1.4.46.1 Messages 267
3.1.4.46.1.1 BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage 268
3.1.4.46.1.2 BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage 268
3.1.4.46.2 Elements 268
3.1.4.46.2.1 GetEntitiesLikeNameAndNamespace 268
3.1.4.46.2.2 GetEntitiesLikeNameAndNamespaceResponse 270
3.1.4.46.3 Complex Types 270
3.1.4.46.4 Simple Types 270
3.1.4.46.5 Attributes 270
3.1.4.46.6 Groups 270
3.1.4.46.7 Attribute Groups 270
3.1.4.47 GetEntitiesReferencedByModelId 270
3.1.4.47.1 Messages 271
3.1.4.47.1.1 BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage 272

Copyright © 2016 Microsoft Corporation

3.1.4.47.1.2 BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage 272
3.1.4.47.2 Elements 272
3.1.4.47.2.1 GetEntitiesReferencedByModelId 272
3.1.4.47.2.2 GetEntitiesReferencedByModelIdResponse 273
3.1.4.47.3 Complex Types 273
3.1.4.47.4 Simple Types 273
3.1.4.47.4.1 EntityConstants.EntitiesInModelQuery 273
3.1.4.47.5 Attributes 274
3.1.4.47.6 Groups 274
3.1.4.47.7 Attribute Groups 274
3.1.4.48 GetEntityById 274
3.1.4.48.1 Messages 275
3.1.4.48.1.1 BusinessDataCatalogSharedService_GetEntityById_InputMessage 276
3.1.4.48.1.2 BusinessDataCatalogSharedService_GetEntityById_OutputMessage 276
3.1.4.48.2 Elements 276
3.1.4.48.2.1 GetEntityById 276
3.1.4.48.2.2 GetEntityByIdResponse 276
3.1.4.48.3 Complex Types 277
3.1.4.48.4 Simple Types 277
3.1.4.48.5 Attributes 277
3.1.4.48.6 Groups 277
3.1.4.48.7 Attribute Groups 277
3.1.4.49 GetEntityCount 277
3.1.4.49.1 Messages 278
3.1.4.49.1.1 BusinessDataCatalogSharedService_GetEntityCount_InputMessage 278
3.1.4.49.1.2 BusinessDataCatalogSharedService_GetEntityCount_OutputMessage 279
3.1.4.49.2 Elements 279
3.1.4.49.2.1 GetEntityCount 279
3.1.4.49.2.2 GetEntityCountResponse 279
3.1.4.49.3 Complex Types 280
3.1.4.49.4 Simple Types 280
3.1.4.49.5 Attributes 280
3.1.4.49.6 Groups 280
3.1.4.49.7 Attribute Groups 280
3.1.4.50 GetEntityNameAndNamespacesForAssociationAndRole 280
3.1.4.50.1 Messages 281
3.1.4.50.1.1 BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage 282
3.1.4.50.1.2 BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage 282
3.1.4.50.2 Elements 282
3.1.4.50.2.1 GetEntityNameAndNamespacesForAssociationAndRole 282
3.1.4.50.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse 283
3.1.4.50.3 Complex Types 283
3.1.4.50.4 Simple Types 283
3.1.4.50.5 Attributes 283
3.1.4.50.6 Groups 283
3.1.4.50.7 Attribute Groups 284
3.1.4.51 GetEntityWithNameAndNamespace 284
3.1.4.51.1 Messages 285
3.1.4.51.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage 285

Copyright © 2016 Microsoft Corporation

3.1.4.51.1.2 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage 285
3.1.4.51.2 Elements 286
3.1.4.51.2.1 GetEntityWithNameAndNamespace 286
3.1.4.51.2.2 GetEntityWithNameAndNamespaceResponse 286
3.1.4.51.3 Complex Types 286
3.1.4.51.4 Simple Types 287
3.1.4.51.5 Attributes 287
3.1.4.51.6 Groups 287
3.1.4.51.7 Attribute Groups 287
3.1.4.52 GetEntityWithNameAndNamespaceAndVersion 287
3.1.4.52.1 Messages 288
3.1.4.52.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage 288
3.1.4.52.1.2 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage 289
3.1.4.52.2 Elements 289
3.1.4.52.2.1 GetEntityWithNameAndNamespaceAndVersion 289
3.1.4.52.2.2 GetEntityWithNameAndNamespaceAndVersionResponse 290
3.1.4.52.3 Complex Types 290
3.1.4.52.4 Simple Types 290
3.1.4.52.5 Attributes 290
3.1.4.52.6 Groups 290
3.1.4.52.7 Attribute Groups 290
3.1.4.53 GetFieldTypeDescriptorsByMethodInstance 290
3.1.4.53.1 Messages 292
3.1.4.53.1.1 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage 292
3.1.4.53.1.2 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage 292
3.1.4.53.2 Elements 293
3.1.4.53.2.1 GetFieldTypeDescriptorsByMethodInstance 293
3.1.4.53.2.2 GetFieldTypeDescriptorsByMethodInstanceResponse 293
3.1.4.53.3 Complex Types 293
3.1.4.53.4 Simple Types 293
3.1.4.53.5 Attributes 294
3.1.4.53.6 Groups 294
3.1.4.53.7 Attribute Groups 294
3.1.4.54 GetFilterDescriptorById 294
3.1.4.54.1 Messages 295
3.1.4.54.1.1 BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage 295
3.1.4.54.1.2 BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage 295
3.1.4.54.2 Elements 296
3.1.4.54.2.1 GetFilterDescriptorById 296
3.1.4.54.2.2 GetFilterDescriptorByIdResponse 296
3.1.4.54.3 Complex Types 296
3.1.4.54.4 Simple Types 297
3.1.4.54.5 Attributes 297
3.1.4.54.6 Groups 297

Copyright © 2016 Microsoft Corporation

3.1.4.54.7 Attribute Groups 297
3.1.4.55 GetFilterDescriptorsForMethod 297
3.1.4.55.1 Messages 298
3.1.4.55.1.1 BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage 298
3.1.4.55.1.2 BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage 299
3.1.4.55.2 Elements 299
3.1.4.55.2.1 GetFilterDescriptorsForMethod 299
3.1.4.55.2.2 GetFilterDescriptorsForMethodResponse 299
3.1.4.55.3 Complex Types 300
3.1.4.55.3.1 ArrayOfFilterDescriptorStruct 300
3.1.4.55.4 Simple Types 300
3.1.4.55.5 Attributes 300
3.1.4.55.6 Groups 300
3.1.4.55.7 Attribute Groups 300
3.1.4.56 GetIdentifierById 300
3.1.4.56.1 Messages 301
3.1.4.56.1.1 BusinessDataCatalogSharedService_GetIdentifierById_InputMessage 302
3.1.4.56.1.2 BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage 302
3.1.4.56.2 Elements 302
3.1.4.56.2.1 GetIdentifierById 302
3.1.4.56.2.2 GetIdentifierByIdResponse 303
3.1.4.56.3 Complex Types 303
3.1.4.56.4 Simple Types 303
3.1.4.56.5 Attributes 303
3.1.4.56.6 Groups 303
3.1.4.56.7 Attribute Groups 303
3.1.4.57 GetIdentifiersForEntity 303
3.1.4.57.1 Messages 304
3.1.4.57.1.1 BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage 305
3.1.4.57.1.2 BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage 305
3.1.4.57.2 Elements 305
3.1.4.57.2.1 GetIdentifiersForEntity 305
3.1.4.57.2.2 GetIdentifiersForEntityResponse 306
3.1.4.57.3 Complex Types 306
3.1.4.57.3.1 ArrayOfIdentifierStruct 306
3.1.4.57.4 Simple Types 306
3.1.4.57.5 Attributes 306
3.1.4.57.6 Groups 307
3.1.4.57.7 Attribute Groups 307
3.1.4.58 GetImportProgress 307
3.1.4.58.1 Messages 307
3.1.4.58.1.1 BusinessDataCatalogSharedService_GetImportProgress_InputMessage 307
3.1.4.58.1.2 BusinessDataCatalogSharedService_GetImportProgress_OutputMessage 308
3.1.4.58.2 Elements 308
3.1.4.58.2.1 GetImportProgress 308
3.1.4.58.2.2 GetImportProgressResponse 308

Copyright © 2016 Microsoft Corporation

3.1.4.58.3 Complex Types 308
3.1.4.58.4 Simple Types 309
3.1.4.58.5 Attributes 309
3.1.4.58.6 Groups 309
3.1.4.58.7 Attribute Groups 309
3.1.4.59 GetLevelForTypeDescriptor 309
3.1.4.59.1 Messages 310
3.1.4.59.1.1 BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage 311
3.1.4.59.1.2 BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage 311
3.1.4.59.2 Elements 311
3.1.4.59.2.1 GetLevelForTypeDescriptor 311
3.1.4.59.2.2 GetLevelForTypeDescriptorResponse 312
3.1.4.59.3 Complex Types 312
3.1.4.59.4 Simple Types 312
3.1.4.59.5 Attributes 312
3.1.4.59.6 Groups 312
3.1.4.59.7 Attribute Groups 312
3.1.4.60 GetLobSystemAllAssembliesBytes 312
3.1.4.60.1 Messages 314
3.1.4.60.1.1 BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage 314
3.1.4.60.1.2 BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage 314
3.1.4.60.2 Elements 314
3.1.4.60.2.1 GetLobSystemAllAssembliesBytes 314
3.1.4.60.2.2 GetLobSystemAllAssembliesBytesResponse 315
3.1.4.60.3 Complex Types 315
3.1.4.60.3.1 ArrayOfbase64Binary 315
3.1.4.60.4 Simple Types 316
3.1.4.60.5 Attributes 316
3.1.4.60.6 Groups 316
3.1.4.60.7 Attribute Groups 316
3.1.4.61 GetLobSystemById 316
3.1.4.61.1 Messages 317
3.1.4.61.1.1 BusinessDataCatalogSharedService_GetLobSystemById_InputMessage 317
3.1.4.61.1.2 BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage 318
3.1.4.61.2 Elements 318
3.1.4.61.2.1 GetLobSystemById 318
3.1.4.61.2.2 GetLobSystemByIdResponse 318
3.1.4.61.3 Complex Types 319
3.1.4.61.4 Simple Types 319
3.1.4.61.5 Attributes 319
3.1.4.61.6 Groups 319
3.1.4.61.7 Attribute Groups 319
3.1.4.62 GetLobSystemByName 319
3.1.4.62.1 Messages 320
3.1.4.62.1.1 BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage 321

Copyright © 2016 Microsoft Corporation

3.1.4.62.1.2 BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage 321
3.1.4.62.2 Elements 321
3.1.4.62.2.1 GetLobSystemByName 321
3.1.4.62.2.2 GetLobSystemByNameResponse 322
3.1.4.62.3 Complex Types 322
3.1.4.62.4 Simple Types 322
3.1.4.62.5 Attributes 322
3.1.4.62.6 Groups 322
3.1.4.62.7 Attribute Groups 322
3.1.4.63 GetLobSystemDataByLobSystem 322
3.1.4.63.1 Messages 324
3.1.4.63.1.1 BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage 324
3.1.4.63.1.2 BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage 324
3.1.4.63.2 Elements 324
3.1.4.63.2.1 GetLobSystemDataByLobSystem 324
3.1.4.63.2.2 GetLobSystemDataByLobSystemResponse 325
3.1.4.63.3 Complex Types 325
3.1.4.63.4 Simple Types 325
3.1.4.63.5 Attributes 325
3.1.4.63.6 Groups 325
3.1.4.63.7 Attribute Groups 325
3.1.4.64 GetLobSystemInstanceById 325
3.1.4.64.1 Messages 327
3.1.4.64.1.1 BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage 328
3.1.4.64.1.2 BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage 328
3.1.4.64.2 Elements 328
3.1.4.64.2.1 GetLobSystemInstanceById 328
3.1.4.64.2.2 GetLobSystemInstanceByIdResponse 328
3.1.4.64.3 Complex Types 329
3.1.4.64.4 Simple Types 329
3.1.4.64.5 Attributes 329
3.1.4.64.6 Groups 329
3.1.4.64.7 Attribute Groups 329
3.1.4.65 GetLobSystemInstancesForLobSystem 329
3.1.4.65.1 Messages 330
3.1.4.65.1.1 BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage 331
3.1.4.65.1.2 BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage 331
3.1.4.65.2 Elements 331
3.1.4.65.2.1 GetLobSystemInstancesForLobSystem 331
3.1.4.65.2.2 GetLobSystemInstancesForLobSystemResponse 332
3.1.4.65.3 Complex Types 332
3.1.4.65.3.1 ArrayOfLobSystemInstanceStruct 332
3.1.4.65.4 Simple Types 333
3.1.4.65.5 Attributes 333

Copyright © 2016 Microsoft Corporation

3.1.4.65.6 Groups 333
3.1.4.65.7 Attribute Groups 333
3.1.4.66 GetLobSystemProxyAssemblyBytesByLobSystemId 333
3.1.4.66.1 Messages 334
3.1.4.66.1.1 BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage 335
3.1.4.66.1.2 BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage 335
3.1.4.66.2 Elements 335
3.1.4.66.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId 335
3.1.4.66.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse 336
3.1.4.66.3 Complex Types 336
3.1.4.66.4 Simple Types 336
3.1.4.66.5 Attributes 336
3.1.4.66.6 Groups 336
3.1.4.66.7 Attribute Groups 336
3.1.4.67 GetLobSystemsLikeName 336
3.1.4.67.1 Messages 338
3.1.4.67.1.1 BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage 338
3.1.4.67.1.2 BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage 338
3.1.4.67.2 Elements 338
3.1.4.67.2.1 GetLobSystemsLikeName 339
3.1.4.67.2.2 GetLobSystemsLikeNameResponse 339
3.1.4.67.3 Complex Types 340
3.1.4.67.4 Simple Types 340
3.1.4.67.5 Attributes 340
3.1.4.67.6 Groups 340
3.1.4.67.7 Attribute Groups 340
3.1.4.68 GetLobSystemsReferencedByEntitiesAssociatedWithModel 340
3.1.4.68.1 Messages 341
3.1.4.68.1.1 BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage 342
3.1.4.68.1.2 BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage 342
3.1.4.68.2 Elements 342
3.1.4.68.2.1 GetLobSystemsReferencedByEntitiesAssociatedWithModel 342
3.1.4.68.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse 343
3.1.4.68.3 Complex Types 343
3.1.4.68.4 Simple Types 343
3.1.4.68.4.1 LobSystemConstants.LobSystemsInModelQuery 343
3.1.4.68.5 Attributes 344
3.1.4.68.6 Groups 344
3.1.4.68.7 Attribute Groups 344
3.1.4.69 GetMethodById 344
3.1.4.69.1 Messages 345
3.1.4.69.1.1 BusinessDataCatalogSharedService_GetMethodById_InputMessage 346
3.1.4.69.1.2 BusinessDataCatalogSharedService_GetMethodById_OutputMessage 346
3.1.4.69.2 Elements 346
3.1.4.69.2.1 GetMethodById 346

Copyright © 2016 Microsoft Corporation

3.1.4.69.2.2 GetMethodByIdResponse 347
3.1.4.69.3 Complex Types 347
3.1.4.69.4 Simple Types 347
3.1.4.69.5 Attributes 347
3.1.4.69.6 Groups 347
3.1.4.69.7 Attribute Groups 347
3.1.4.70 GetMethodInstanceById 347
3.1.4.70.1 Messages 348
3.1.4.70.1.1 BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage 349
3.1.4.70.1.2 BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage 349
3.1.4.70.2 Elements 349
3.1.4.70.2.1 GetMethodInstanceById 349
3.1.4.70.2.2 GetMethodInstanceByIdResponse 350
3.1.4.70.3 Complex Types 350
3.1.4.70.4 Simple Types 350
3.1.4.70.5 Attributes 350
3.1.4.70.6 Groups 350
3.1.4.70.7 Attribute Groups 350
3.1.4.71 GetMethodInstancesForDataClass 350
3.1.4.71.1 Messages 351
3.1.4.71.1.1 BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage 352
3.1.4.71.1.2 BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage 352
3.1.4.71.2 Elements 352
3.1.4.71.2.1 GetMethodInstancesForDataClass 352
3.1.4.71.2.2 GetMethodInstancesForDataClassResponse 353
3.1.4.71.3 Complex Types 353
3.1.4.71.4 Simple Types 353
3.1.4.71.5 Attributes 353
3.1.4.71.6 Groups 353
3.1.4.71.7 Attribute Groups 353
3.1.4.72 GetMethodInstancesForMethod 353
3.1.4.72.1 Messages 355
3.1.4.72.1.1 BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage 355
3.1.4.72.1.2 BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage 355
3.1.4.72.2 Elements 355
3.1.4.72.2.1 GetMethodInstancesForMethod 355
3.1.4.72.2.2 GetMethodInstancesForMethodResponse 356
3.1.4.72.3 Complex Types 356
3.1.4.72.4 Simple Types 356
3.1.4.72.5 Attributes 356
3.1.4.72.6 Groups 356
3.1.4.72.7 Attribute Groups 356
3.1.4.73 GetMethodsForDataClass 356
3.1.4.73.1 Messages 358

Copyright © 2016 Microsoft Corporation

3.1.4.73.1.1 BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage 358
3.1.4.73.1.2 BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage 358
3.1.4.73.2 Elements 358
3.1.4.73.2.1 GetMethodsForDataClass 358
3.1.4.73.2.2 GetMethodsForDataClassResponse 359
3.1.4.73.3 Complex Types 359
3.1.4.73.3.1 ArrayOfMethodStruct 359
3.1.4.73.4 Simple Types 359
3.1.4.73.5 Attributes 360
3.1.4.73.6 Groups 360
3.1.4.73.7 Attribute Groups 360
3.1.4.74 GetModelById 360
3.1.4.74.1 Messages 361
3.1.4.74.1.1 BusinessDataCatalogSharedService_GetModelById_InputMessage 361
3.1.4.74.1.2 BusinessDataCatalogSharedService_GetModelById_OutputMessage 361
3.1.4.74.2 Elements 361
3.1.4.74.2.1 GetModelById 362
3.1.4.74.2.2 GetModelByIdResponse 362
3.1.4.74.3 Complex Types 362
3.1.4.74.4 Simple Types 362
3.1.4.74.5 Attributes 362
3.1.4.74.6 Groups 363
3.1.4.74.7 Attribute Groups 363
3.1.4.75 GetModelByName 363
3.1.4.75.1 Messages 364
3.1.4.75.1.1 BusinessDataCatalogSharedService_GetModelByName_InputMessage 364
3.1.4.75.1.2 BusinessDataCatalogSharedService_GetModelByName_OutputMessage 364
3.1.4.75.2 Elements 364
3.1.4.75.2.1 GetModelByName 365
3.1.4.75.2.2 GetModelByNameResponse 365
3.1.4.75.3 Complex Types 365
3.1.4.75.4 Simple Types 365
3.1.4.75.5 Attributes 365
3.1.4.75.6 Groups 365
3.1.4.75.7 Attribute Groups 365
3.1.4.76 GetModelsByEntityId 366
3.1.4.76.1 Messages 367
3.1.4.76.1.1 BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage 367
3.1.4.76.1.2 BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage 367
3.1.4.76.2 Elements 367
3.1.4.76.2.1 GetModelsByEntityId 368
3.1.4.76.2.2 GetModelsByEntityIdResponse 368
3.1.4.76.3 Complex Types 368
3.1.4.76.4 Simple Types 368
3.1.4.76.5 Attributes 368
3.1.4.76.6 Groups 368
3.1.4.76.7 Attribute Groups 368
3.1.4.77 GetModelsByName 368

Copyright © 2016 Microsoft Corporation

3.1.4.77.1 Messages 370
3.1.4.77.1.1 BusinessDataCatalogSharedService_GetModelsByName_InputMessage 370
3.1.4.77.1.2 BusinessDataCatalogSharedService_GetModelsByName_OutputMessage 370
3.1.4.77.2 Elements 370
3.1.4.77.2.1 GetModelsByName 371
3.1.4.77.2.2 GetModelsByNameResponse 371
3.1.4.77.3 Complex Types 371
3.1.4.77.4 Simple Types 372
3.1.4.77.5 Attributes 372
3.1.4.77.6 Groups 372
3.1.4.77.7 Attribute Groups 372
3.1.4.78 GetParameterById 372
3.1.4.78.1 Messages 373
3.1.4.78.1.1 BusinessDataCatalogSharedService_GetParameterById_InputMessage 373
3.1.4.78.1.2 BusinessDataCatalogSharedService_GetParameterById_OutputMessage 373
3.1.4.78.2 Elements 374
3.1.4.78.2.1 GetParameterById 374
3.1.4.78.2.2 GetParameterByIdResponse 374
3.1.4.78.3 Complex Types 374
3.1.4.78.4 Simple Types 375
3.1.4.78.5 Attributes 375
3.1.4.78.6 Groups 375
3.1.4.78.7 Attribute Groups 375
3.1.4.79 GetParametersForMethod 375
3.1.4.79.1 Messages 376
3.1.4.79.1.1 BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage 376
3.1.4.79.1.2 BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage 376
3.1.4.79.2 Elements 377
3.1.4.79.2.1 GetParametersForMethod 377
3.1.4.79.2.2 GetParametersForMethodResponse 377
3.1.4.79.3 Complex Types 377
3.1.4.79.3.1 ArrayOfParameterStruct 378
3.1.4.79.4 Simple Types 378
3.1.4.79.5 Attributes 378
3.1.4.79.6 Groups 378
3.1.4.79.7 Attribute Groups 378
3.1.4.80 GetRootTypeDescriptorForParameter 378
3.1.4.80.1 Messages 379
3.1.4.80.1.1 BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage 380
3.1.4.80.1.2 BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage 380
3.1.4.80.2 Elements 380
3.1.4.80.2.1 GetRootTypeDescriptorForParameter 380
3.1.4.80.2.2 GetRootTypeDescriptorForParameterResponse 381
3.1.4.80.3 Complex Types 381
3.1.4.80.4 Simple Types 381
3.1.4.80.5 Attributes 381

Copyright © 2016 Microsoft Corporation

3.1.4.80.6 Groups 381
3.1.4.80.7 Attribute Groups 381
3.1.4.81 GetServiceApplicationId 381
3.1.4.81.1 Messages 382
3.1.4.81.1.1 BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage 382
3.1.4.81.1.2 BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage 382
3.1.4.81.2 Elements 382
3.1.4.81.2.1 GetServiceApplicationId 383
3.1.4.81.2.2 GetServiceApplicationIdResponse 383
3.1.4.81.3 Complex Types 383
3.1.4.81.4 Simple Types 383
3.1.4.81.5 Attributes 383
3.1.4.81.6 Groups 383
3.1.4.81.7 Attribute Groups 383
3.1.4.82 GetSystemUtilityTypeNameForLobSystem 384
3.1.4.82.1 Messages 385
3.1.4.82.1.1 BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage 385
3.1.4.82.1.2 BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage 385
3.1.4.82.2 Elements 386
3.1.4.82.2.1 GetSystemUtilityTypeNameForLobSystem 386
3.1.4.82.2.2 GetSystemUtilityTypeNameForLobSystemResponse 386
3.1.4.82.3 Complex Types 386
3.1.4.82.4 Simple Types 386
3.1.4.82.5 Attributes 387
3.1.4.82.6 Groups 387
3.1.4.82.7 Attribute Groups 387
3.1.4.83 GetTypeDescriptorById 387
3.1.4.83.1 Messages 388
3.1.4.83.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage 388
3.1.4.83.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage 388
3.1.4.83.2 Elements 389
3.1.4.83.2.1 GetTypeDescriptorById 389
3.1.4.83.2.2 GetTypeDescriptorByIdResponse 389
3.1.4.83.3 Complex Types 389
3.1.4.83.4 Simple Types 389
3.1.4.83.5 Attributes 390
3.1.4.83.6 Groups 390
3.1.4.83.7 Attribute Groups 390
3.1.4.84 GetTypeDescriptorsByNameAndLevelForParameter 390
3.1.4.84.1 Messages 391
3.1.4.84.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage 392
3.1.4.84.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage 392

Copyright © 2016 Microsoft Corporation

3.1.4.84.2 Elements 392
3.1.4.84.2.1 GetTypeDescriptorsByNameAndLevelForParameter....392
3.1.4.84.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse 393
3.1.4.84.3 Complex Types 393
3.1.4.84.4 Simple Types 393
3.1.4.84.5 Attributes 393
3.1.4.84.6 Groups 393
3.1.4.84.7 Attribute Groups....393
3.1.4.85 GetTypeDescriptorsForFilterDescriptor 393
3.1.4.85.1 Messages 394
3.1.4.85.1.1 BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage 395
3.1.4.85.1.2 BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage 395
3.1.4.85.2 Elements 395
3.1.4.85.2.1 GetTypeDescriptorsForFilterDescriptor 395
3.1.4.85.2.2 GetTypeDescriptorsForFilterDescriptorResponse....396
3.1.4.85.3 Complex Types 396
3.1.4.85.4 Simple Types 396
3.1.4.85.5 Attributes 396
3.1.4.85.6 Groups 396
3.1.4.85.7 Attribute Groups....396
3.1.4.86 GetTypeReflectorTypeNameForParameter 396
3.1.4.86.1 Messages 398
3.1.4.86.1.1 BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage....398
3.1.4.86.1.2 BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage 398
3.1.4.86.2 Elements 398
3.1.4.86.2.1 GetTypeReflectorTypeNameForParameter 399
3.1.4.86.2.2 GetTypeReflectorTypeNameForParameterResponse 399
3.1.4.86.3 Complex Types 399
3.1.4.86.4 Simple Types 399
3.1.4.86.5 Attributes 399
3.1.4.86.6 Groups 400
3.1.4.86.7 Attribute Groups....400
3.1.4.87 GetXmlSchemaForView 400
3.1.4.87.1 Messages 401
3.1.4.87.1.1 BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage 402
3.1.4.87.1.2 BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage....402
3.1.4.87.2 Elements 402
3.1.4.87.2.1 GetXmlSchemaForView....402
3.1.4.87.2.2 GetXmlSchemaForViewResponse 403
3.1.4.87.3 Complex Types 404
3.1.4.87.4 Simple Types 404
3.1.4.87.5 Attributes 404
3.1.4.87.6 Groups 404
3.1.4.87.7 Attribute Groups....404
3.1.4.88 HaveRights....405
3.1.4.88.1 Messages 406

Copyright © 2016 Microsoft Corporation

3.1.4.88.1.1 BusinessDataCatalogSharedService_HaveRights_InputMessage 406
3.1.4.88.1.2 BusinessDataCatalogSharedService_HaveRights_OutputMessage 406
3.1.4.88.2 Elements 406
3.1.4.88.2.1 HaveRights 406
3.1.4.88.2.2 HaveRightsResponse 407
3.1.4.88.3 Complex Types 407
3.1.4.88.4 Simple Types 407
3.1.4.88.4.1 BdcRights 407
3.1.4.88.5 Attributes 408
3.1.4.88.6 Groups 408
3.1.4.88.7 Attribute Groups 408
3.1.4.89 ImportPackage 408
3.1.4.89.1 Messages 412
3.1.4.89.1.1 BusinessDataCatalogSharedService_ImportPackage_InputMessage .412
3.1.4.89.1.2 BusinessDataCatalogSharedService_ImportPackage_OutputMessage412
3.1.4.89.2 Elements 412
3.1.4.89.2.1 ImportPackage 413
3.1.4.89.2.2 ImportPackageResponse 414
3.1.4.89.3 Complex Types 414
3.1.4.89.4 Simple Types 414
3.1.4.89.5 Attributes 414
3.1.4.89.6 Groups 414
3.1.4.89.7 Attribute Groups 415
3.1.4.90 ImportPackageWithProgress 415
3.1.4.90.1 Messages 418
3.1.4.90.1.1 BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage 419
3.1.4.90.1.2 BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage 419
3.1.4.90.2 Elements 419
3.1.4.90.2.1 ImportPackageWithProgress 419
3.1.4.90.2.2 ImportPackageWithProgressResponse 420
3.1.4.90.3 Complex Types 421
3.1.4.90.4 Simple Types 421
3.1.4.90.5 Attributes 421
3.1.4.90.6 Groups 421
3.1.4.90.7 Attribute Groups 421
3.1.4.91 IsMethodInstantiated 421
3.1.4.91.1 Messages 422
3.1.4.91.1.1 BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage 422
3.1.4.91.1.2 BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage 423
3.1.4.91.2 Elements 423
3.1.4.91.2.1 IsMethodInstantiated 423
3.1.4.91.2.2 IsMethodInstantiatedResponse 423
3.1.4.91.3 Complex Types 423
3.1.4.91.4 Simple Types 424
3.1.4.91.5 Attributes 424
3.1.4.91.6 Groups 424
3.1.4.91.7 Attribute Groups 424
3.1.4.92 IsParameterReferencedByMethodInstance 424
3.1.4.92.1 Messages 425

Copyright © 2016 Microsoft Corporation

3.1.4.92.1.1 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage 425
3.1.4.92.1.2 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage 426
3.1.4.92.2 Elements 426
3.1.4.92.2.1 IsParameterReferencedByMethodInstance 426
3.1.4.92.2.2 IsParameterReferencedByMethodInstanceResponse 426
3.1.4.92.3 Complex Types 427
3.1.4.92.4 Simple Types 427
3.1.4.92.5 Attributes 427
3.1.4.92.6 Groups 427
3.1.4.92.7 Attribute Groups 427
3.1.4.93 MetadataObjectCreate 427
3.1.4.93.1 Messages 433
3.1.4.93.1.1 BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage 434
3.1.4.93.1.2 BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage 434
3.1.4.93.2 Elements 434
3.1.4.93.2.1 MetadataObjectCreate 434
3.1.4.93.2.2 MetadataObjectCreateResponse 435
3.1.4.93.3 Complex Types 435
3.1.4.93.4 Simple Types 435
3.1.4.93.5 Attributes 435
3.1.4.93.6 Groups 435
3.1.4.93.7 Attribute Groups 435
3.1.4.94 MetadataObjectMergeXml 435
3.1.4.94.1 Messages 438
3.1.4.94.1.1 BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage 439
3.1.4.94.1.2 BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage 439
3.1.4.94.2 Elements 439
3.1.4.94.2.1 MetadataObjectMergeXml 439
3.1.4.94.2.2 MetadataObjectMergeXmlResponse 441
3.1.4.94.3 Complex Types 441
3.1.4.94.4 Simple Types 442
3.1.4.94.5 Attributes 442
3.1.4.94.6 Groups 442
3.1.4.94.7 Attribute Groups 442
3.1.4.95 MetadataObjectReadXml 442
3.1.4.95.1 Messages 449
3.1.4.95.1.1 BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage 449
3.1.4.95.1.2 BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage 450
3.1.4.95.2 Elements 450
3.1.4.95.2.1 MetadataObjectReadXml 450
3.1.4.95.2.2 MetadataObjectReadXmlResponse 451
3.1.4.95.3 Complex Types 452

Copyright © 2016 Microsoft Corporation

3.1.4.95.4 Simple Types 452
3.1.4.95.5 Attributes 452
3.1.4.95.6 Groups 452
3.1.4.95.7 Attribute Groups 452
3.1.4.96 MetadataObjectWriteXml 452
3.1.4.96.1 Messages 454
3.1.4.96.1.1 BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage 455
3.1.4.96.1.2 BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage 455
3.1.4.96.2 Elements 455
3.1.4.96.2.1 MetadataObjectWriteXml 455
3.1.4.96.2.2 MetadataObjectWriteXmlResponse 456
3.1.4.96.3 Complex Types 458
3.1.4.96.4 Simple Types 458
3.1.4.96.5 Attributes 458
3.1.4.96.6 Groups 458
3.1.4.96.7 Attribute Groups 458
3.1.4.97 ModelReadXml 458
3.1.4.97.1 Messages 462
3.1.4.97.1.1 BusinessDataCatalogSharedService_ModelReadXml_InputMessage 463
3.1.4.97.1.2 BusinessDataCatalogSharedService_ModelReadXml_OutputMessage 463
3.1.4.97.2 Elements 463
3.1.4.97.2.1 ModelReadXml 463
3.1.4.97.2.2 ModelReadXmlResponse 464
3.1.4.97.3 Complex Types 465
3.1.4.97.4 Simple Types 465
3.1.4.97.5 Attributes 465
3.1.4.97.6 Groups 465
3.1.4.97.7 Attribute Groups 465
3.1.4.98 ReadSlicedXml 465
3.1.4.98.1 Messages 466
3.1.4.98.1.1 BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage 466
3.1.4.98.1.2 BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage 466
3.1.4.98.2 Elements 466
3.1.4.98.2.1 ReadSlicedXml 467
3.1.4.98.2.2 ReadSlicedXmlResponse 467
3.1.4.98.3 Complex Types 467
3.1.4.98.4 Simple Types 468
3.1.4.98.5 Attributes 468
3.1.4.98.6 Groups 468
3.1.4.98.7 Attribute Groups 468
3.1.4.99 RemoveEntityFromModel 468
3.1.4.99.1 Messages 469
3.1.4.99.1.1 BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage 469
3.1.4.99.1.2 BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage 470
3.1.4.99.2 Elements 470
3.1.4.99.2.1 RemoveEntityFromModel 470
3.1.4.99.2.2 RemoveEntityFromModelResponse 470
3.1.4.99.3 Complex Types 470
3.1.4.99.4 Simple Types 470
3.1.4.99.5 Attributes 471

Copyright © 2016 Microsoft Corporation

3.1.4.99.6 Groups 471
3.1.4.99.7 Attribute Groups 471
3.1.4.100 RemoveLocalizedName 471
3.1.4.100.1 Messages 472
3.1.4.100.1.1 BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage 472
3.1.4.100.1.2 BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage 473
3.1.4.100.2 Elements 473
3.1.4.100.2.1 RemoveLocalizedName 473
3.1.4.100.2.2 RemoveLocalizedNameResponse 473
3.1.4.100.3 Complex Types 473
3.1.4.100.4 Simple Types 474
3.1.4.100.5 Attributes 474
3.1.4.100.6 Groups 474
3.1.4.100.7 Attribute Groups 474
3.1.4.101 RemoveProperty 474
3.1.4.101.1 Messages 475
3.1.4.101.1.1 BusinessDataCatalogSharedService_RemoveProperty_InputMessage 475
3.1.4.101.1.2 BusinessDataCatalogSharedService_RemoveProperty_OutputMessage 476
3.1.4.101.2 Elements 476
3.1.4.101.2.1 RemoveProperty 476
3.1.4.101.2.2 RemovePropertyResponse 476
3.1.4.101.3 Complex Types 476
3.1.4.101.4 Simple Types 477
3.1.4.101.5 Attributes 477
3.1.4.101.6 Groups 477
3.1.4.101.7 Attribute Groups 477
3.1.4.102 SaveLocalizedName 477
3.1.4.102.1 Messages 478
3.1.4.102.1.1 BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage 478
3.1.4.102.1.2 BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage 479
3.1.4.102.2 Elements 479
3.1.4.102.2.1 SaveLocalizedName 479
3.1.4.102.2.2 SaveLocalizedNameResponse 479
3.1.4.102.3 Complex Types 480
3.1.4.102.4 Simple Types 480
3.1.4.102.5 Attributes 480
3.1.4.102.6 Groups 480
3.1.4.102.7 Attribute Groups 480
3.1.4.103 SaveProperty 480
3.1.4.103.1 Messages 481
3.1.4.103.1.1 BusinessDataCatalogSharedService_SaveProperty_InputMessage 481
3.1.4.103.1.2 BusinessDataCatalogSharedService_SaveProperty_OutputMessage 482
3.1.4.103.2 Elements 482
3.1.4.103.2.1 SaveProperty 482
3.1.4.103.2.2 SavePropertyResponse 482
3.1.4.103.3 Complex Types 483
3.1.4.103.4 Simple Types 483
3.1.4.103.5 Attributes 483
3.1.4.103.6 Groups 483
3.1.4.103.7 Attribute Groups 483

Copyright © 2016 Microsoft Corporation

3.1.4.104 SetAccessControlEntries....483
3.1.4.104.1 Messages....485
3.1.4.104.1.1 BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage....485
3.1.4.104.1.2 BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage....485
3.1.4.104.2 Elements....485
3.1.4.104.2.1 SetAccessControlEntries....485
3.1.4.104.2.2 SetAccessControlEntriesResponse....486
3.1.4.104.3 Complex Types....486
3.1.4.104.4 Simple Types....486
3.1.4.104.5 Attributes....486
3.1.4.104.6 Groups....486
3.1.4.104.7 Attribute Groups....486
3.1.4.105 SetDefaultActionForEntity....487
3.1.4.105.1 Messages....488
3.1.4.105.1.1 BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage....488
3.1.4.105.1.2 BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage....488
3.1.4.105.2 Elements....488
3.1.4.105.2.1 SetDefaultActionForEntity....489
3.1.4.105.2.2 SetDefaultActionForEntityResponse....489
3.1.4.105.3 Complex Types....489
3.1.4.105.4 Simple Types....489
3.1.4.105.5 Attributes....489
3.1.4.105.6 Groups....489
3.1.4.105.7 Attribute Groups....490
3.1.4.106 SetDefaultValuesForTypeDescriptor....490
3.1.4.106.1 Messages....491
3.1.4.106.1.1 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage....491
3.1.4.106.1.2 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage....492
3.1.4.106.2 Elements....492
3.1.4.106.2.1 SetDefaultValuesForTypeDescriptor....492
3.1.4.106.2.2 SetDefaultValuesForTypeDescriptorResponse....492
3.1.4.106.3 Complex Types....493
3.1.4.106.4 Simple Types....493
3.1.4.106.5 Attributes....493
3.1.4.106.6 Groups....493
3.1.4.106.7 Attribute Groups....493
3.1.4.107 SetLobSystemDataByLobSystemId....493
3.1.4.107.1 Messages....494
3.1.4.107.1.1 BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage....494
3.1.4.107.1.2 BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage....494
3.1.4.107.2 Elements....494
3.1.4.107.2.1 SetLobSystemDataByLobSystemId....495

Copyright © 2016 Microsoft Corporation

3.1.4.107.2.2 SetLobSystemDataByLobSystemIdResponse 495
3.1.4.107.3 Complex Types 495
3.1.4.107.4 Simple Types 495
3.1.4.107.5 Attributes 495
3.1.4.107.6 Groups 496
3.1.4.107.7 Attribute Groups 496
3.1.4.108 TypeDescriptorCreate 496
3.1.4.108.1 Messages 498
3.1.4.108.1.1 BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage 498
3.1.4.108.1.2 BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage 498
3.1.4.108.2 Elements 498
3.1.4.108.2.1 TypeDescriptorCreate 499
3.1.4.108.2.2 TypeDescriptorCreateResponse 499
3.1.4.108.3 Complex Types 499
3.1.4.108.4 Simple Types 499
3.1.4.108.5 Attributes 500
3.1.4.108.6 Groups 500
3.1.4.108.7 Attribute Groups 500
3.1.4.109 TypeDescriptorMergeXml 500
3.1.4.109.1 Messages 502
3.1.4.109.1.1 BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage 502
3.1.4.109.1.2 BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage 502
3.1.4.109.2 Elements 502
3.1.4.109.2.1 TypeDescriptorMergeXml 503
3.1.4.109.2.2 TypeDescriptorMergeXmlResponse 504
3.1.4.109.3 Complex Types 504
3.1.4.109.4 Simple Types 504
3.1.4.109.5 Attributes 504
3.1.4.109.6 Groups 504
3.1.4.109.7 Attribute Groups 504
3.1.4.110 TypeDescriptorReadXml 504
3.1.4.110.1 Messages 508
3.1.4.110.1.1 BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage 509
3.1.4.110.1.2 BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage 509
3.1.4.110.2 Elements 509
3.1.4.110.2.1 TypeDescriptorReadXml 509
3.1.4.110.2.2 TypeDescriptorReadXmlResponse 510
3.1.4.110.3 Complex Types 510
3.1.4.110.4 Simple Types 511
3.1.4.110.5 Attributes 511
3.1.4.110.6 Groups 511
3.1.4.110.7 Attribute Groups 511
3.1.4.111 Update 511
3.1.4.111.1 Messages 518
3.1.4.111.1.1 BusinessDataCatalogSharedService_Update_InputMessage 518
3.1.4.111.1.2 BusinessDataCatalogSharedService_Update_OutputMessage 518

Copyright © 2016 Microsoft Corporation

3.1.4.111.2 Elements 518
3.1.4.111.2.1 Update 518
3.1.4.111.2.2 UpdateResponse 519
3.1.4.111.3 Complex Types 519
3.1.4.111.4 Simple Types 519
3.1.4.111.5 Attributes 519
3.1.4.111.6 Groups 519
3.1.4.111.7 Attribute Groups 519
3.1.4.112 WriteSlicedXml 519
3.1.4.112.1 Messages 520
3.1.4.112.1.1 BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage 520
3.1.4.112.1.2 BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage 521
3.1.4.112.2 Elements 521
3.1.4.112.2.1 WriteSlicedXml 521
3.1.4.112.2.2 WriteSlicedXmlResponse 521
3.1.4.112.3 Complex Types 522
3.1.4.112.4 Simple Types 522
3.1.4.112.5 Attributes 522
3.1.4.112.6 Groups 522
3.1.4.112.7 Attribute Groups 522
3.1.5 Timer Events 522
3.1.6 Other Local Events 522

4 Protocol Examples 523
4.1 Creating an LobSystem 523
4.2 Setting the Security Information of a MetadataObject 524
4.3 Reading the Security Information of a MetadataObject 525
4.4 Creating an Entity 527
4.5 Activating an Entity 528
4.6 Reading an Entity 530
4.7 Creating Properties for MetadataObjects 531
4.8 Adding Localized Names for MetadataObjects 533
4.9 Updating an Entity 534
4.10 Deleting an Entity 535

5 Security 537
5.1 Security Considerations for Implementers 537
5.2 Index of Security Parameters 537

6 Appendix A: Full WSDL 538

7 Appendix B: Full XML Schema 729
7.1 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema 729
7.2 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema 730
7.3 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema 732
7.4 Microsoft.BusinessData.SharePoint Schema 732
7.5 http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants Schema 732
7.6 Microsoft.SharePoint.BusinessData Schema 733
7.7 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema 743
7.8 http://schemas.microsoft.com/2003/10/Serialization/ Schema 743
7.9 http://schemas.datacontract.org/2004/07/System Schema 744
7.10 http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema 745

8 Appendix C: Product Behavior 775

9 Change Tracking 784

Copyright © 2016 Microsoft Corporation

10 Index..... 786

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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**.

Copyright © 2016 Microsoft Corporation

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).

Copyright © 2016 Microsoft Corporation

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

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

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

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

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

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

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

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

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

line-of-business (LOB) system: A software system that is used to store business data and can also contain business rules and business logic (2) 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.

Copyright © 2016 Microsoft Corporation

MetadataObject: An abstract data structure that consists of a set of attributes (1) that represent a LobSystem, LobSystemInstance, DataClass, Entity, Method, MethodInstance, Parameter, TypeDescriptor, Identifier, FilterDescriptor, **Action**, **ActionParameter**, or **Association**.

MetadataObjectId: An attribute (1) 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 (2) 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 (2) 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 (1) 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.

Copyright © 2016 Microsoft Corporation

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 (2) 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).

Copyright © 2016 Microsoft Corporation

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].

Copyright © 2016 Microsoft Corporation

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 (1) 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. 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/flat/publications/Standards/Ecma-335.htm

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

[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

Copyright © 2016 Microsoft Corporation

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", 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] World Wide Web Consortium, "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

[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-

Copyright © 2016 Microsoft Corporation

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:

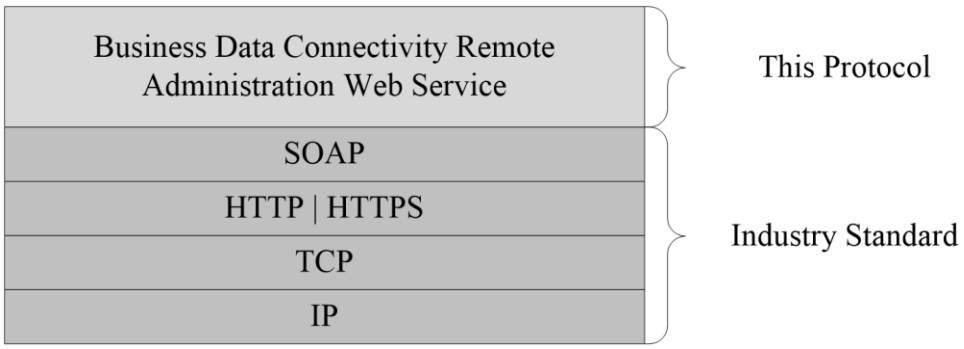

Figure 1: This protocol in relation to other protocols

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.

Copyright © 2016 Microsoft Corporation

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

Copyright © 2016 Microsoft Corporation

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	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	
q2	http://schemas.datacontract.org/2004/07/System	
q4	Microsoft.BusinessData.SharePoint	
q5	Microsoft.SharePoint.BusinessData	
q9	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
ser	http://schemas.microsoft.com/2003/10/Serialization/	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://www.microsoft.com/Office/2009/BusinessDataCatalog	
tns1	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	
tns2	http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	
tns3	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants	
tns4	http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports	

Copyright © 2016 Microsoft Corporation

Prefix	Namespace URI	Reference
wsaw	http://www.w3.org/2006/05/addressing/wsdl	[WSA1.0]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

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

Copyright © 2016 Microsoft Corporation

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 MUST only be included as part of a SOAP fault as specified in **Complex Types** (section 2.2.4).
ActionParameterStruct	The **ActionParameterStruct** complex type contains information about an **ActionParameter**.
ActionStruct	The **ActionStruct** complex type contains information about an **Action**.
AdministrationMetadataCatalogStruct	The **AdministrationMetadataCatalogStruct** contains information about a **MetadataCatalog**.
ArgumentException	The **ArgumentException** 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).
ArgumentNullException	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).
ArgumentOutOfRangeException	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).
ArrayOfAccessControlEntryStruct	The **ArrayOfAccessControlEntryStruct** complex type is a list of complex types, each of which represents an ACE.
ArrayOfAssociationStruct	The **ArrayOfAssociationStruct** complex type is a list of complex types, each of which represents an Association.
ArrayOfEntityStruct	The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an Entity.
ArrayOfLobSystemStruct	The **ArrayOfLobSystemStruct** complex type is a list of complex types, each of which represents an LobSystem.
ArrayOfLocalizedNameStruct	The **ArrayOfLocalizedNameStruct** complex type is a list of complex types, each of which represents a **localized name**.
ArrayOfMethodInstanceStruct	The **ArrayOfMethodInstanceStruct** complex type is a list of complex types, each of which represents a MethodInstances.
ArrayOfModelStruct	The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a **Model**.
ArrayOfPropertyStruct	The **ArrayOfPropertyStruct** complex type is a list of complex types, each of which represents a property.
ArrayOfstring	The **ArrayOfString** complex type represents a list of xs:string as specified in [XMLSCHEMA2].

Copyright © 2016 Microsoft Corporation

Complex type	Description
ArrayOfTypeDescriptorStruct	The **ArrayOfTypeDescriptorStruct** complex type is a list of complex types, each of which represents a TypeDescriptor.
ArrayOfunsignedInt	The ArrayOfunsignedInt complex type represents a list of xs:unsignedInt elements as specified in [XMLSCHEMA2].
AssociationGroupStruct	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**.
AssociationReferenceStruct	The **AssociationReferenceStruct** complex type contains information about an AssociationReference.
AssociationStruct	The **AssociationStruct** complex type MUST contain information about an Association. A namespace at any index of the **sourceEntityNamespaces** element of this complex type MUST be the namespace of the Entity which the name at the same index of the **sourceEntityNames** element belongs to.
BdcException	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).
BdcExceptionState	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).
ComplexValueStruct	The **ComplexValueStruct** complex type MUST contain information about data types.
ConcurrentModificationExceptionState	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).
DataClassStruct	The **DataClassStruct** complex type MUST contain information about a **DataClass**.
DefaultValueStruct	The **DefaultValueStruct** complex type contains details of a **DefaultValue** of a TypeDescriptor.
DuplicateMetadataObjectExceptionState	The **DuplicateMetadataObjectExceptionState** 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).

Copyright © 2016 Microsoft Corporation

Complex type	Description
EntityStruct	The **EntityStruct** complex type contains information about an Entity.
ExceededMetadataObjectLimitExceptionState	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).
Exception	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).
FilterDescriptorStruct	The **FilterDescriptorStruct** complex type contains information about a FilterDescriptor.
IdentifierStruct	The **IdentifierStruct** complex type contains information about an Identifier.
InvalidMetadataObjectExceptionState	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).
InvalidMetadataPropertyExceptionState	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).
InvalidOperationException	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).
LobSystemInstanceStruct	The LobSystemInstanceStruct complex type contains information about an LobSystemInstance.
LobSystemStruct	The **LobSystemStruct** complex type contains information about an LobSystem.
LocalizedNameStruct	The **LocalizedNameStruct** complex type contains information about a localized name.
MetadataException	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).
MetadataObjectNotFoundExceptionState	The **MetadataObjectNotFoundExceptionState** complex type is an error complex type that contains information about a protocol-server-side error because a requested

Copyright © 2016 Microsoft Corporation

Complex type	Description
	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).
MetadataObjectStruct	This structure contains the attributes of the MetadataObject.
MethodInstanceStruct	The **MethodInstanceStruct** complex type contains information about a MethodInstance.
MethodStruct	The **MethodStruct** complex type contains information about a Method.
ModelStruct	The **ModelStruct** complex type contains information about a Model.
PackageFormatExceptionState	The **PackageFormatExceptionState** 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)
ParameterStruct	This structure contains the information about a Parameter.
PropertyStruct	The **PropertyStruct** complex type contains information about a property.
ProxyGenerationResult	The **ProxyGenerationResult** complex type contains information about **Business Logic Modules**<1>.
SystemException	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).
TypeDescriptorStruct	The **TypeDescriptorStruct** complex type contains information about a TypeDescriptor.
Version	The **Version** 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>
```


Copyright © 2016 Microsoft Corporation

```
</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="SecurableObjectTypeName" 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.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

```
    <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.

Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

```
    <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.

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.

Copyright © 2016 Microsoft Corporation

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

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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

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

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


Copyright © 2016 Microsoft Corporation

```
    <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.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: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>
```


Copyright © 2016 Microsoft Corporation

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

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

lobSystemId: The MetadataObjectId of the LobSystem 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="methodInstanceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

methodInstanceName: 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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

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

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

```
<xs:complexType name="FilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="q5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="filterType" type="tns1:FilterType"/>
        <xs: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 (from namespace http://schemas.datacontract.org/2.2.5.5/07/Microsoft.BusinessData.MetadataModel) of a FilterDescriptor.

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

2.2.4.35 IdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

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

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


Copyright © 2016 Microsoft Corporation

```
      <xs:extension base="q5:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
          <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

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

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

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

Value	Description
System.String	A string of Unicode text.
System.Int16	A number 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 **GUID**.
System.Boolean	A bit.

Copyright © 2016 Microsoft Corporation

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.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.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

Copyright © 2016 Microsoft Corporation

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.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"/>
```


Copyright © 2016 Microsoft Corporation

```
    <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="vlue" 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.

vlue: 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 MetadataObjectNotFoundExceptionState

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.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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 **ReturnTypeDescriptor** 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>
```


Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

direction: Specifies the direction of the Parameter.

methodId: Specifies the MetadataObjectId of 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.

Copyright © 2016 Microsoft Corporation

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

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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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

Copyright © 2016 Microsoft Corporation

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
```


Copyright © 2016 Microsoft Corporation

```
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.

Copyright © 2016 Microsoft Corporation

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
CacheUsage	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.
char	The **char** simple type represents a Unicode character.
DirectionType	The **DirectionType** simple type specifies the direction of an argument represented by a Parameter for a line-of-business (LOB) system operation.
duration	The **duration** simple type represents a duration.
FilterType	The **FilterType** simple type specifies the type of the filter represented by the FilterDescriptor.
guid	The **guid** simple type represents a GUID.
MethodInstanceType	This simple type contains information about the type of a MethodInstance.
PackageContents	Specifies a subset of the types of the data contained by a MetadataModel.
SystemType	The type of line-of-business (LOB) system that an **LobSystem** is representing.
TypeDescriptorFlags	The **TypeDescriptorFlags** simple type contains information about the characteristics of the data stored in a data structure represented by a TypeDescriptor.

Copyright © 2016 Microsoft Corporation

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


Copyright © 2016 Microsoft Corporation

```
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <xs:enumeration value="Sorting"/>
    </xs:restriction>
  </xs:simpleType>
```

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

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

Copyright © 2016 Microsoft Corporation

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 **Finder**.
SpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a **SpecificFinder**.
GenericInvoker	Indicates that the protocol client MUST interpret the MethodInstance as a **GenericInvoker**.
IdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a **IdEnumerator**.

Copyright © 2016 Microsoft Corporation

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

2.2.5.8 PackageContents

Namespace: Microsoft.SharePoint.BusinessData

Specifies a subset of the types of the data contained by a MetadataModel.

Copyright © 2016 Microsoft Corporation

```
<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 MetadataObjects contained by the MetadataModel.
LocalizedNames	The localized names corresponding to the MetadataObjects contained by the MetadataModel.
Permissions	The ACEs corresponding to the MetadataObjects contained by the MetadataModel.
Properties	The Properties corresponding to the MetadataObjects contained by the MetadataModel
InlineProxies	The Business Logic Modules associated with the LobSystems contained by the MetadataModel.
All	The MetadataObjects contained by the MetadataModel, along with their localized names, Properties, 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.

Copyright © 2016 Microsoft Corporation

Value	Meaning
Database	The represented LOB system is a database.
WebService	The represented LOB system is a **Web service**.
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 Business Logic Module.<12>
OData	The represented LOB system is an **OData service** 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 field for calling a Creator.
UpdaterField	This TypeDescriptor MUST be considered as a field for calling an Updater.
PreUpdaterField	This TypeDescriptor MUST be used to send the latest value received from the line-of-business (LOB) system corresponding to the field with the same name as this TypeDescriptor when calling an Updater.
IsCollection	This TypeDescriptor MUST be interpreted as a collection of data structures.
ReadOnly	The protocol client MUST prevent values in the data structures corresponding to this TypeDescriptor from being modified.

Copyright © 2016 Microsoft Corporation

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 **SortingFilter**. When this flag is not set on any TypeDescriptor, the **SortingFilter** MUST be ignored.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

Copyright © 2016 Microsoft Corporation

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

Copyright © 2016 Microsoft Corporation

- 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**.

Copyright © 2016 Microsoft Corporation

- 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**.

Copyright © 2016 Microsoft Corporation

- 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**.

Copyright © 2016 Microsoft Corporation

- 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 **ReturnTypeDescriptor** 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**.

Copyright © 2016 Microsoft Corporation

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
ArgumentException (section 2.2.4.7)	The protocol server encounters an invalid argument value while performing implementation-specific operations.

Copyright © 2016 Microsoft Corporation

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

Copyright © 2016 Microsoft Corporation

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

Copyright © 2016 Microsoft Corporation

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

Operation	Description
Activate	This operation is used to set the specified Entity active.
AddAssociationReferenceToAssociationGroup	This operation is used to create the specified AssociationReference in the specified AssociationGroup.
AddEntityToModel	This operation is used to add a reference to the specified Entity to the specified Model.
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.
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.
ClearLocalizedNames	This operation is used to remove all localized names of the specified MetadataObject from the specified Setting.
ClearProperties	This operation is used to remove all Properties of the specified MetadataObject from the specified Setting.
CopyAclAcrossChildren	This operation is used to clear the ACEs of the descendent MetadataObjects of a specified **MetadataObject**, then copy the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject**, or the **MetadataObject** is contained by the specified **MetadataObject** 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**.
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

Copyright © 2016 Microsoft Corporation

Operation	Description
	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**.
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**.
Deactivate	This operation is used to set the active version of an Entity as not active.
Delete	This operation is used to delete the specified MetadataObject.
DeleteAssociationReferenceFromAssociationGroup	This operation is used to remove an AssociationReference from an AssociationGroup by deleting the **AssociationReference**.
DeleteDefaultValueForTypeDescriptor	This operation is used to delete the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.
DeleteNoCascade	This operation is used to delete the specified MetadataObject without deleting the **MetadataObjects** it references.
DeleteProxyAssemblyForLobSystem	This operation is used to delete a Business Logic Module<15> associated with the specified LobSystem.
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**.
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

Copyright © 2016 Microsoft Corporation

Operation	Description
	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.
GenerateProxyAssemblyForLobSystem	This operation is used to force the protocol server to create an implementation-specific Business Logic Module<16> 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.
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**.
GetActionById	This operation is used to retrieve the specified Action.
GetActionParameterById	This operation is used to retrieve the specified ActionParameter.
GetActionParametersForAction	This operation is used to retrieve the ActionParameters of the specified Action.
GetActionsForEntity	This operation is used to retrieve the Actions of the specified Entity.
GetAllLocalizedNames	This operation is used to retrieve all localized names of the specified MetadataObject.
GetAllLocalizedNamesForMetadataObjectStruct	This operation is used to retrieve all the localized names of the specified MetadataObject for the specified Setting.
GetAllPartitionIds	This operation is deprecated from the protocol and MUST NOT be called.

Copyright © 2016 Microsoft Corporation

Operation	Description
GetAllProperties	This operation is used to retrieve all the Properties of the specified MetadataObject and the specified Setting.
GetAllPropertiesForMetadataObjectStruct	This operation is used to retrieve all the Properties of the specified MetadataObject from the specified Setting.
GetAssociationById	This operation is used to retrieve the Association with the specified MetadataObjectId.
GetAssociationGroupById	This operation is used to retrieve the AssociationGroup with the specified MetadataObjectId.
GetAssociationGroupsForEntity	This operation is used to retrieve the AssociationGroups of the Entity with the specified MetadataObjectId.
GetAssociationMembersInRole	This operation is used to retrieve the source or destination Entities of the specified Association.
GetAssociationReferencesForAssociationGroup	This operation is used to retrieve the AssociationReferences contained by the specified AssociationGroup.
GetAssociationsForDataClass	This operation is used to retrieve the Associations that are contained by the specified DataClass.
GetAssociationsForEntityAndRole	This operation is used to retrieve the Associations that references the specified Entity as **Association** source or **Association** destination.
GetAssociationsForMethod	This operation is used to retrieve the Associations that are contained by the specified Method.
GetCacheInvalidationRecordsSince	This operation is deprecated from the protocol and MUST NOT<17> be called.
GetChildTypeDescriptorsForTypeDescriptor	This operation is used to retrieve the TypeDescriptors contained by the specified **TypeDescriptor**.
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.<18>
GetDataClassById	This operation is used to retrieve the DataClass with the specified

Copyright © 2016 Microsoft Corporation

Operation	Description
	MetadataObjectId.
GetDataClassesForSystem	This operation is used to retrieve DataClasses contained by the specified LobSystem.
GetDefaultValuesForTypeDescriptor	This operation is used to retrieve the DefaultValues of the specified TypeDescriptor.
GetEntitiesForAssociationAndRole	This operation is used to retrieve the Entities performing the role of source or destination for the specified Association.
GetEntitiesForSystem	This operation is used to retrieve Entities of the specified LobSystem.
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**.
GetEntitiesReferencedByModelId	This operation is used to retrieve Entities which are referenced by the specified Model.
GetEntityById	This operation is used to retrieve the Entity with the specified MetadataObjectId.
GetEntityCount	This operation retrieves the number of Entity elements that are contained by the specified LobSystem.
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.
GetEntityWithNameAndNamespace	This operation is used to retrieve the active Entity with the specified name and namespace in the specified **Partition**.
GetEntityWithNameAndNamespaceAndVersion	This operation is used to retrieve the Entity with the specified name, namespace, and version.
GetFieldTypeDescriptorsByMethodInstance	This operation is used to retrieve TypeDescriptors that correspond to fields for the MethodInstance with the specified name on the specified Entity.
GetFilterDescriptorById	This operation is used to retrieve the FilterDescriptor with the specified MetadataObjectId.

Copyright © 2016 Microsoft Corporation

Operation	Description
GetFilterDescriptorsForMethod	This operation is used to retrieve the FilterDescriptors contained by the specified Method.
GetIdentifierById	This operation is used to retrieve the Identifier with the specified MetadataObjectId.
GetIdentifiersForEntity	This operation is used to retrieve the Identifiers contained by the specified Entity.
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.
GetLevelForTypeDescriptor	This operation retrieves the depth of the specified TypeDescriptor in the **TypeDescriptor** tree that contains the specified **TypeDescriptor**. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth 0. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1 plus the depth of the containing **TypeDescriptor**.
GetLobSystemAllAssembliesBytes	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.<19>
GetLobSystemById	This operation retrieves the LobSystem with the specified MetadataObjectId.
GetLobSystemByName	This operation is used to retrieve the specified LobSystem.
GetLobSystemDataByLobSystem	This operation is used to retrieve Business Logic Modules<20> associated with the specified LobSystem.
GetLobSystemInstanceById	This operation is used to retrieve the LobSystemInstance with the specified MetadataObjectId.
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<21> are returned.
GetLobSystemProxyAssemblyBytesByLobSystemId	This operation is used to retrieve the implementation-specific Business Logic Module**<22>** associated with the specified LobSystem.

Copyright © 2016 Microsoft Corporation

Operation	Description
GetLobSystemsLikeName	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.<23> An **LobSystem** matches the wildcard pattern specified by **searchLikeName** if and only if **searchLikeName** matches the name of the **LobSystem**, or the localized name of the **LobSystem** with LCID 0, or the localized name of the **LobSystem** with the LCID specified by **callerCultureLcid**.
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<24> that are referenced by Entities associated with the specified Model.
GetMethodById	This operation is used to retrieve the Method with the specified MetadataObjectId.
GetMethodInstanceById	This operation is used to retrieve the MethodInstance with the specified MetadataObjectId.
GetMethodInstancesForDataClass	This operation is used to retrieve the MethodInstances contained by the Methods contained by the specified DataClass.
GetMethodInstancesForMethod	This operation is used to retrieve the MethodInstances contained by the specified Method.
GetMethodsForDataClass	This operation is used to retrieve the Methods contained by the specified DataClass.
GetModelById	This operation is used to retrieve the Model with the specified MetadataObjectId.
GetModelByName	This operation is used to retrieve the specified Model.
GetModelsByEntityId	This operation is used to retrieve the Models that reference the specified Entity.
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**.
GetParameterById	This operation is used to retrieve the Parameter with the specified MetadataObjectId.
GetParametersForMethod	This operation is used to retrieve the Parameters of the specified Method.

Copyright © 2016 Microsoft Corporation

Operation	Description
GetRootTypeDescriptorForParameter	This operation is used to retrieve the root TypeDescriptor of the specified Parameter.
GetServiceApplicationId	This operation is used to retrieve the unique implementation-specific identifier of metadata store.
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.
GetTypeDescriptorById	This operation is used to retrieve the TypeDescriptor with the specified MetadataObjectId.
GetTypeDescriptorsByNameAndLevelForParameter	This operation SHOULD<25> 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**.
GetTypeDescriptorsForFilterDescriptor	This operation is used to retrieve TypeDescriptors referenced by the specified FilterDescriptor.
GetTypeReflectorTypeNameForParameter	This operation is used to retrieve the implementation-specific name of the type of the **TypeReflector** of the specified Parameter.
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

Copyright © 2016 Microsoft Corporation

Operation	Description
	▪ DeletedIdEnumerator ▪ BulkIdEnumerator ▪ Creator ▪ Updater The MethodInstances of any other type do not have a View associated with them.
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**.
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.
ImportPackageWithProgress	This operation is used to create the following

Copyright © 2016 Microsoft Corporation

Operation	Description
	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.
IsMethodInstantiated	This operation is used to determine if the specified Method contains at least one MethodInstance.
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**.
MetadataObjectCreate	This operation is used to create a MetadataObject in the metadata store. If the

Copyright © 2016 Microsoft Corporation

Operation	Description
	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.
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.
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

Copyright © 2016 Microsoft Corporation

Operation	Description
	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.
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

Copyright © 2016 Microsoft Corporation

Operation	Description
	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 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.
ModelReadXml	This operation is used to create MetadataObjects contained by the specified MetadataModel along with their Properties, localized names, and ACEs in the metadata store. The **MetadataModel** 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 **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** and **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.
ReadSlicedXml	This operation is deprecated from the protocol and MUST NOT be called.
RemoveEntityFromModel	This operation is used to remove the reference to the specified Entity from the specified Model.
RemoveLocalizedName	This operation is used to remove the localized name with the specified LCID from the specified MetadataObject.
RemoveProperty	This operation is used to remove the specified Property from the specified MetadataObject.
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

Copyright © 2016 Microsoft Corporation

Operation	Description
	the specified localized name.
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**.
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**.
SetDefaultActionForEntity	This operation is used to set the default Action for the specified Entity.
SetDefaultValuesForTypeDescriptor	This operation is used to set the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the **typeDescriptorId** element of the specified DefaultValueStruct (section 2.2.4.29) complex type for the MethodInstance with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct** (section 2.2.4.29).
SetLobSystemDataByLobSystemId	This operation is deprecated from the protocol and MUST NOT be called.
TypeDescriptorCreate	This operation is used to create a TypeDescriptor in the metadata store.
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.
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.
Update	This operation is used to update a MetadataObject in the metadata store.

Copyright © 2016 Microsoft Corporation

Operation	Description
WriteSlicedXml	This operation is deprecated from the protocol and MUST NOT<26> 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService Activate ArgumentNullExceptionFault 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/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_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/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/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_Activate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Activate_OutputMessage** response message, unless any one of the conditions in the following table is met.

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified **Entity**.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **Entity** 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 **Entity** For example, this error can be triggered when one context reads the given **Entity**, after which another context updates the same **Entity**, and then the original context tries to update.
InvalidOperationException (section 2.2.4.38)	The operation cannot be performed for one of the following reasons: ▪ The specified **Entity** or another version of the specified **Entity** is already active. ▪ The protocol server encountered reference errors as specified in section 3.1.4.4.3.2 when performing this operation.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Entity** does not exist.

3.1.4.1.1 Messages

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

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

3.1.4.1.1.1 BusinessDataCatalogSharedService_Activate_InputMessage

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

The **SOAP action** value is:

Copyright © 2016 Microsoft Corporation

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

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

3.1.4.1.1.2 BusinessDataCatalogSharedService_Activate_OutputMessage

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

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

3.1.4.1.2 Elements

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

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

3.1.4.1.2.1 Activate

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

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

entityStruct: The specified Entity.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroup"
message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Input
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Argum
entNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Argum
entOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcEx
ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inval
idOperationExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddAssociationReferenceToAssociationGroup Metad
ataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified **AssociationGroup**.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **AssociationGroup** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **AssociationGroup**. For example, this error can be raised when one context reads the **AssociationGroup**, another context updates the same **AssociationGroup**, and then the original context tries to update.
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	Another AssociationReference in the specified **AssociationGroup** references the Association that is referenced by the specified **AssociationReference**.
ExceededMetadataobjectLimitExceptionState (section 2.2.4.32)	The specified **AssociationGroup** already contains the implementation-specific maximum number of **AssociationReferences**.
InvalidOperationException (section 2.2.4.38)	The operation cannot be performed because Entity containing the **AssociationGroup** is active.

3.1.4.2.1 Messages

Copyright © 2016 Microsoft Corporation

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

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

3.1.4.2.1.1 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage

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

The SOAP action value is:

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

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

3.1.4.2.1.2 BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage

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

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

3.1.4.2.2 Elements

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

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

3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup

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

Copyright © 2016 Microsoft Corporation

```
<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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelResponse"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel ArgumentNullExceptionFault Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel BdcExceptionStateFault FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService AddEntityToModel InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified **Model**.
MetadataObjectnotFoundExceptionState (section 2.2.4.43)	The specified **Model** does not exist.
BdcExceptionState (section 2.2.4.25)	The specified **Entity** does not exist.

3.1.4.3.1 Messages

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

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

3.1.4.3.1.1 BusinessDataCatalogSharedService_AddEntityToModel_InputMessage

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

The SOAP action value is:

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

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

3.1.4.3.1.2 BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage

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

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

3.1.4.3.2 Elements

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

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

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

```
<wsdl:operation name="BulkSwitchActiveOrValidate"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateResponse"
message="tns:BusinessDataCatalogSharedService BulkSwitchActiveOrValidate OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionStateFault 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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The value of the **validate** element is "false" and the security principal (1) in whose context the protocol client is operating is not authorized to modify the specified **Entities**, or the currently active versions of the specified **Entities**.
ArgumentOutOfRangeException (section 2.2.4.9)	The **entityStructs** element in **BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage** has no elements.
ConcurrentModificationExceptionState (section 2.2.4.27)	At least one of the specified **Entities** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **Entity**. For example, this error can be triggered when one context reads the given **Entity**, after which another context updates the same **Entity**, and then the original context tries to update the same **Entity**.
InvalidOperationException (section 2.2.4.38)	The operation cannot be performed because the value of the validate element is **false** and the protocol server encountered reference errors as specified in **ActivationErrorRecordStruct** (section 3.1.4.4.3.2) when performing this operation.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One or more of the specified **Entities** 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
BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage	The request WSDL message for the **BulkSwitchActiveOrValidate** WSDL operation.
BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage	The response WSDL message for the **BulkSwitchActiveOrValidate** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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
BulkSwitchActiveOrValidate	The input data for the **BulkSwitchActiveOrValidate** WSDL operation.
BulkSwitchActiveOrValidateResponse	The result data for the **BulkSwitchActiveOrValidate** WSDL operation.

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">
```


Copyright © 2016 Microsoft Corporation

```
  <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
ActivationErrorRecordStruct	Contains information specific to a single reference error.
ArrayOfActivationErrorRecordStruct	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.

Copyright © 2016 Microsoft Corporation

```
<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
```


Copyright © 2016 Microsoft Corporation

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

Major MUST be the major version of the **Entity**. Minor MUST be of the **Entity**. Build MUST be of the **Entity**. Revision MUST be 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 **TypeDescriptor** is in error because it references an Identifier that doesn't exist in the specified **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingMethodName**, **containingParameterName**, **containingTypeDescriptorName**, **containingTypeDescriptorId**, **tDIDReferenceName**, **tDIDReferenceTypeName**, **tDIDEntityReferenceName**, and **tDIDEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1004	A **TypeDescriptor** is in error because it references an **Association** that doesn't exist in the specified **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingMethodName**, **containingParameterName**, **containingTypeDescriptorName**, **containingTypeDescriptorId**, **tDAssociationReferenceName**, **tDAssociationEntityReferenceName**, and **tDAssociationEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1005	An **Entity** is in error because the **TypeDescriptors** that are contained in the Parameters of its Methods are referencing only non-empty strict subset of **Identifiers** of an active **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingMethodName**, **tDIDEntityReferenceName**, and **tDIDEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1008	An AssociationReference is in error because it references an Association that doesn't exist in the specified **Entity**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, **containingAssociationGroupName**, **aGAssociationReferenceName**, **aGAssociationEntityReferenceName**, and **aGAssociationEntityReferenceNamespace** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1011	An Association is in error because the **Entity** containing the **Association** is not contained by the same LobSystem as the destination **Entity** of the **Association**. For this error code, **ContainingEntityNamespace**, **ContainingEntityName**, **ContainingEntityVersion**, **ContainingMethodName**, and **AGAssociationReferenceName** all MUST NOT be NULL. All other columns MUST be ignored by the protocol client.
-1012	An **Association** is in error because all of the conditions in the following list are **true**: ▪ The destination **Entity** of the **Association** contains MethodInstance, and there exists a **TypeDescriptor** contained by the **Parameter** that contains the ReturnTypeDescriptor of this **MethodInstance**. ▪ The same **TypeDescriptor** references an **Identifier** of a source **Entity** of the **Association**. ▪ The same **TypeDescriptor** references the **Association**.

Copyright © 2016 Microsoft Corporation

Value	Description
	▪ The **ReturnTypeDescriptor** of the **Association** has the **IsCollection** flag not set. Or, all of the conditions in the following list are **true**: ▪ The source **Entity** of the **Association** contains a **MethodInstance**, and there exists a **TypeDescriptor** contained by the **Parameter** that contains the **ReturnTypeDescriptor** of this **MethodInstance**. ▪ The same **TypeDescriptor** references an **Identifier** of the destination **Entity** of the **Association**. ▪ The same **TypeDescriptor** references the **Association**. ▪ The **ReturnTypeDescriptor** of the **Association** has the **IsCollection** flag set. For this error code, **ContainingEntityNamespace**, **ContainingEntityName**, **ContainingEntityVersion**, **ContainingMethodName**, and **AGAssociationReferenceName** all MUST NOT be NULL. All other columns MUST be ignored by the protocol client.
-800	An AssociationGroup is in error because all **Associations** referenced by the AssociationReferences contained by this **AssociationGroup** with the **IsReverse** attribute set to **false** do not have same sources. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-801	An **AssociationGroup** is in error because one of the following conditions is **true**: ▪ The **Entity** containing **AssociationGroup** is not the destination of this **AssociationGroup**. ▪ The **AssociationGroup** contains **AssociationReferences** with IsReverse attribute is set to true, but the **AssociationGroup** has more than one source. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-802	An **AssociationGroup** is in error because there is more than one **Association** which is an Associator or a Disassociator referenced from the **AssociationReferences** of this **AssociationGroup**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-803	An **AssociationGroup** is in error because one of the following conditions is **true**: ▪ There are more than one **Association** which is an BulkAssociatedIdEnumerator referenced from the **AssociationReferences** of this **AssociationGroup** with **IsReverse** attribute is set to **false**. ▪ There are more **Associations** that are **BulkAssociatedIdEnumerators** referenced from the **AssociationReferences** of this **AssociationGroup** with **IsReverse** attribute is set to **true**, than the number of sources of this **AssociationGroup**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-804	An **AssociationGroup** is in error because it contains an **AssociationReference** which has **IsReverse** attribute set to **true**, but the **Association** it references is not an AssociationNavigator, a BulkAssociationNavigator or a **BulkAssociatedIdEnumerator**. For this error code, **containingEntityNamespace**, **containingEntityName**, **containingEntityVersion**, and **containingAssociationGroupName** all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-805	An **Association** is in error because it is a **BulkAssociationNavigator** and it is not referenced from an **AssociationReference** that is contained in an **AssociationGroup** which has another

Copyright © 2016 Microsoft Corporation

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_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/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService CheckPathInMethodInstances 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/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_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/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage** response message, unless any 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
ArgumentException (section 2.2.4.7)	The specified path did not conform to the specification for **TypeDescriptorPathStrings** in [MS-BDCMFFS] section 2.1.5.5.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified DataClass does not exist.

Copyright © 2016 Microsoft Corporation

3.1.4.5.1 Messages

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

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

3.1.4.5.1.1 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
CheckPathInMethodInstances	The input data for the **CheckPathInMethodInstances** WSDL operation.
CheckPathInMethodInstancesResponse	The result data for the **CheckPathInMethodInstances** WSDL operation.

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">
```


Copyright © 2016 Microsoft Corporation

```
  <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 ReturnTypeDescriptor 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ClearLocalizedNames BdcExceptionStateFault Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ClearLocalizedNames MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage** request message, and the protocol server MUST respond with a

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.2)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified MetadataObject.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.

3.1.4.6.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage	The request WSDL message for the **ClearLocalizedNames** WSDL operation.
BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage	The response WSDL message for the **ClearLocalizedNames** WSDL operation.

3.1.4.6.1.1 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

Copyright © 2016 Microsoft Corporation

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
ClearLocalizedNames	The input data for the **ClearLocalizedNames** WSDL operation.
ClearLocalizedNamesResponse	The result data for the **ClearLocalizedNames** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/ClearProperties"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ClearProperties BdcExceptionStateFault FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ClearProperties MetadataExceptionStateFault Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ClearProperties_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ClearProperties_OutputMessage** response message, unless any one of the conditions in the following table is met.

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.2)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified MetadataObject.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.

3.1.4.7.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_ClearProperties_InputMessage	The request WSDL message for the **ClearProperties** WSDL operation.
BusinessDataCatalogSharedService_ClearProperties_OutputMessage	The response WSDL message for the **ClearProperties** WSDL operation.

3.1.4.7.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
ClearProperties	The input data for the **ClearProperties** WSDL operation.
ClearPropertiesResponse	The result data for the **ClearProperties** WSDL operation.

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

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

Copyright © 2016 Microsoft Corporation

3.1.4.8 CopyAclAcrossChildren

This operation is used to clear the ACEs of the descendent MetadataObjects of a specified **MetadataObject**, then copy the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject**, or the **MetadataObject** is contained by the specified **MetadataObject** 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 **CopyAclAcrossChildren** WSDL operation.

```
<wsdl:operation name="CopyAclAcrossChildren" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildren"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenResponse"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildren OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_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/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage** response message, unless any one of the conditions in the following table is met.

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.2)	The security principal (2) in whose context the protocol client is operating is not authorized to set permissions on the specified **MetadataObject**.
ArgumentOutOfRangeException (section 2.2.4.9)	The **MetadataObjectId** of the specified **MetadataObject** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.

3.1.4.8.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage	The request WSDL message for the **CopyAclAcrossChildren** WSDL operation.
BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage	The response WSDL message for the **CopyAclAcrossChildren** WSDL operation.

3.1.4.8.1.1 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.

Copyright © 2016 Microsoft Corporation

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
CopyAclAcrossChildren	The input data for the **CopyAclAcrossChildren** WSDL operation.
CopyAclAcrossChildrenResponse	The result data for the **CopyAclAcrossChildren** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
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
AccessDeniedExceptionState (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 **MetadataObject**.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **MetadataObject** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.

3.1.4.9.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage	The request WSDL message for the **CopyAclAcrossChildrenForSetting** WSDL operation.
BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage	The response WSDL message for the **CopyAclAcrossChildrenForSetting** WSDL operation.

Copyright © 2016 Microsoft Corporation

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
CopyAclAcrossChildrenForSetting	The input data for the **CopyAclAcrossChildrenForSetting** WSDL operation.
CopyAclAcrossChildrenForSettingResponse	The result data for the **CopyAclAcrossChildrenForSetting** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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
```


Copyright © 2016 Microsoft Corporation

```
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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified ACEs.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **MetadataObject** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist in the metadata store.

3.1.4.10.1 Messages

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

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage	The request WSDL message for the **CopyAclToSetting** WSDL operation.
BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage	The response WSDL message for the **CopyAclToSetting** WSDL operation.

3.1.4.10.1.1 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/Cop
yAclToSetting
```

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
CopyAclToSetting	The input data for the **CopyAclToSetting** WSDL operation.
CopyAclToSettingResponse	The result data for the **CopyAclToSetting** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService Deactivate ArgumentNullExceptionFault FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService Deactivate MetadataExceptionStateFault 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/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fau
ltMessage" 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified **Entity**.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **Entity** 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 **Entity**. For example, this error can be triggered when

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	a thread reads the given **Entity**, after which another thread updates the same **Entity**, and then the original thread tries to update.
InvalidOperationException (section 2.2.4.38)	One of the following conditions is satisfied: ▪ This operation cannot be performed because the protocol server encountered reference errors (as specified in section 3.1.4.4.3.2) when performing this operation. ▪ This operation cannot be performed because the specified **Entity** is already not active.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Entity** 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
BusinessDataCatalogSharedService_Deactivate_InputMessage	The request WSDL message for the **Deactivate** WSDL operation.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_Deactivate_OutputMessage	The response WSDL message for the **Deactivate** WSDL operation.

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/Dea
ctivate
```

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
Deactivate	The input data for the **Deactivate** WSDL operation.
DeactivateResponse	The result data for the **Deactivate** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
    <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_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, or the specified **MetadataObject** is a Model and the security principal (2) in whose context the protocol client is operating is not authorized to modify one or more of the LobSystems which contain one or more **Entity** referenced by the specified Model.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **MetadataObject** has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be triggered when one context reads the given **MetadataObject**, after which another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**.
InvalidOperationException (section 2.2.4.38)	One of the following conditions is satisfied: ▪ The operation cannot be performed because the specified **MetadataObject** is an **Entity**, which, if active, MUST be made not active before being deleted. An attempt was made to make the **Entity** not active, but, at the time of the attempt, the **Entity** was no longer active. ▪ The operation cannot be performed because the specified **MetadataObject** is a FilterDescriptor of type TimeStampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator. ▪ The specified **MetadataObject** is an LobSystem and it contains at least one **Entity**.

Copyright © 2016 Microsoft Corporation

Error Complex Type	Condition
	▪ The operation cannot be performed because the specified **MetadataObject** is a **TypeDescriptor** and there exists at least one **MethodInstance** whose ReturnTypeDescriptor is the specified **TypeDescriptor**. ▪ The specified **MetadataObject** cannot be deleted because it is either an active **Entity** or the child of an active **Entity**. ▪ The specified **MetadataObject** cannot be deleted because it is an LobSystemInstance which does not exist.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
Action	Delete all the ActionParameters contained in the specified **Action**.
Entity	Delete all **Actions**, Methods, Identifiers and AssociationGroups that are child objects of the specified **Entity**, as well as all their child objects, in a recursive manner. If the LobSystem that is the parent of this **Entity** contains no other **Entities**, also delete the **LobSystem**, as well as all of **LobSystem**'s child objects in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified **LobSystem**.
Method	Delete all **MethodInstances**, FilterDescriptors and **Parameters** that are child objects of the specified **Method**, as well as all their child objects, in a recursive manner.
Model	Delete all **LobSystems** and **Entities** that are referenced by the specified **Model**, as well as all their child objects, in a recursive manner.
Parameter	Delete the root TypeDescriptor of the specified **Parameter**, as well as all child objects of the root **TypeDescriptor**, in a recursive manner.
TypeDescriptor	Delete all the **TypeDescriptors** that are child objects of the specified **TypeDescriptor**, as well as all their child objects, in a recursive manner.

3.1.4.12.1 Messages

Copyright © 2016 Microsoft Corporation

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

Message	Description
BusinessDataCatalogSharedService_Delete_InputMessage	The request WSDL message for the **Delete** WSDL operation.
BusinessDataCatalogSharedService_Delete_OutputMessage	The response WSDL message for the **Delete** WSDL operation.

3.1.4.12.1.1 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/Del
ete
```

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
Delete	The input data for the **Delete** WSDL operation.
DeleteResponse	The result data for the **Delete** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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_
```


Copyright © 2016 Microsoft Corporation

```
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
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions is satisfied: ▪ The security principal (2) in whose context the protocol client is operating is not authorized to edit the Entity containing the **AssociationGroup** containing the specified **AssociationReference**. ▪ The identifier of the specified **AssociationReference** is 0. ▪ The specified **AssociationReference** does not exist.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The **associationGroupId** of the specified **AssociationReference** is 0.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **AssociationReference** 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 **AssociationReference**. For example, this error can be triggered when one context reads the given **AssociationReference**, after which another context updates the same **AssociationReference**, and then the original context tries to update.<30>
InvalidOperationException (section 2.2.4.38)	The operation cannot be performed because the **Entity** which contains the **AssociationGroup** which contains the specified **AssociationReference** is active.<31>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The **AssociationGroup** that is specified by the **associationGroupId** of the specified **AssociationReference** 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
BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage	The request WSDL message for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.
BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage	The response WSDL message for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

Copyright © 2016 Microsoft Corporation

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
DeleteAssociationReferenceFromAssociationGroup	The input data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.
DeleteAssociationReferenceFromAssociationGroupResponse	The result data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor ArgumentNul
lExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOut
OfRangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptio
nStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOper
ationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor MetadataExc
eptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the Method containing the Parameter containing the specified TypeDescriptor.
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId for the **TypeDescriptor** or the MethodInstance is 0.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **TypeDescriptor** or the specified **MethodInstance** does not exist.

3.1.4.14.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage	The request WSDL message for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.
BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage	The response WSDL message for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

3.1.4.14.1.1 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage

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

The SOAP action value is:

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

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

3.1.4.14.1.2 BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_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
DeleteDefaultValueForTypeDescriptor	The input data for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

Copyright © 2016 Microsoft Corporation

Element	Description
DeleteDefaultValueForTypeDescriptorResponse	The result data for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

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.

3.1.4.14.2.2 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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**

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.2)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **MetadataObject** has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be triggered when one context reads the given **MetadataObject**, after which another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**.
InvalidOperationException (section 2.2.4.38)	One of the following conditions is satisfied: ▪ The operation cannot be performed because the specified **MetadataObject** is an Entity, which, if active, MUST be made not active before being deleted. An attempt was made to make the **Entity** not active, but, at the time of the attempt, the **Entity** was no longer active. ▪ The operation cannot be performed because the specified **MetadataObject** is a FilterDescriptor of type TimeStampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator. ▪ The specified **MetadataObject** is an LobSystem and it contains at least one **Entity**. ▪ The operation cannot be performed because the specified **MetadataObject** is a **TypeDescriptor** and there exists at least one **MethodInstance** whose ReturnTypeDescriptor is the specified **TypeDescriptor**. ▪ The specified **MetadataObject** cannot be deleted because it is either an active **Entity** or the child of an active **Entity**. ▪ The specified **MetadataObject** cannot be deleted because it is an LobSystemInstance which does not exist.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
Action	Delete all the ActionParameters contained in the

Copyright © 2016 Microsoft Corporation

MetadataObject	Action
	specified **Action**.
Entity	Delete all **Actions**, **Methods**, **Identifiers**, and AssociationGroups that are child objects of the specified **Entity**, as well as all their child objects, in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified **LobSystem**.
Method	Delete all **MethodInstances**, FilterDescriptors and **Parameters** that are child objects of the specified **Method**, as well as all their child objects, in a recursive manner.
Parameter	Delete the root TypeDescriptor of the specified **Parameter**, as well as all child objects of the root **TypeDescriptor**, in a recursive manner.
TypeDescriptor	Delete all the **TypeDescriptors** that are child objects of the specified **TypeDescriptors**, 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
BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage	The request WSDL message for the **DeleteNoCascade** WSDL operation.
BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage	The response WSDL message for the **DeleteNoCascade** WSDL operation.

3.1.4.15.1.1 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/Del
eteNoCascade
```

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.

Copyright © 2016 Microsoft Corporation

3.1.4.15.2 Elements

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

Element	Description
DeleteNoCascade	The input data for the **DeleteNoCascade** WSDL operation.
DeleteNoCascadeResponse	The result data for the **DeleteNoCascade** WSDL operation.

3.1.4.15.2.1 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.

3.1.4.15.2.2 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteProxyAssemblyForLobSystem 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/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

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified LobSystem.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **LobSystem** 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
BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage	The request WSDL message for the **DeleteProxyAssemblyForLobSystem** WSDL operation.
BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage	The response WSDL message for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

Element	Description
DeleteProxyAssemblyForLobSystem	The input data for the **DeleteProxyAssemblyForLobSystem** WSDL operation.
DeleteProxyAssemblyForLobSystemResponse	The result data for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog in which the **Entity** is to be created.
ArgumentException (section 2.2.4.7)	At least one of the following is **true**: ▪ The namespace specified for the new **Entity** is NULL or empty. ▪ The length of the namespace specified for the new **Entity** is greater than 255 characters. ▪ The name specified for the new **Entity** is NULL or empty. ▪ The length of the name specified for the new **Entity** is greater than 255 characters.
ArgumentNullException (section 2.2.4.8)	The version specified for a new **Entity** is NULL.
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The **Entity** with the same name, namespace, version, and partition already exists in the specified **LobSystem**.
ExceededMetadataobjectLimitExceptionState (section 2.2.4.32)	The specified **LobSystem** already contains the implementation-specific maximum number of **Entities**.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	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
BusinessDataCatalogSharedService_EntityCreate_InputMessage	The request WSDL message for the **EntityCreate** WSDL operation.
BusinessDataCatalogSharedService_EntityCreate_OutputMessage	The response WSDL message for the **EntityCreate** WSDL operation.

3.1.4.17.1.1 BusinessDataCatalogSharedService_EntityCreate_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
EntityCreate	The input data for the **EntityCreate** WSDL operation.
EntityCreateResponse	The result data for the **EntityCreate** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
</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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_ExportPackage_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/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService ExportPackage InvalidOperationExceptionFault Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ExportPackage MetadataExceptionStateFault Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ExportPackage PackageFormatExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ExportPackage_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ExportPackage_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (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 Model.
ArgumentException (section 2.2.4.7)	The "InlineProxies" value requires the "Model" value to be also specified for the **packageContents** element.
ArgumentNullException (section 2.2.4.8)	The specified **Model** is NULL.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **Model** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Model** or other **MetadataObjects** to be exported do not exist.

Copyright © 2016 Microsoft Corporation

3.1.4.18.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_ExportPackage_InputMessage	The request WSDL message for the **ExportPackage** WSDL operation.
BusinessDataCatalogSharedService_ExportPackage_OutputMessage	The response WSDL message for the **ExportPackage** WSDL operation.

3.1.4.18.1.1 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/Exp
ortPackage
```

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
ExportPackage	The input data for the **ExportPackage** WSDL operation.
ExportPackageResponse	The result data for the **ExportPackage** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
</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.

Copyright © 2016 Microsoft Corporation

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<35> 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>
```


Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the specified LobSystem.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **LobSystem** 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
BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage	The request WSDL message for the **GenerateProxyAssemblyForLobSystem** WSDL operation.
BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage	The response WSDL message for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

3.1.4.19.1.1 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

Copyright © 2016 Microsoft Corporation

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
GenerateProxyAssemblyForLobSystem	The input data for the **GenerateProxyAssemblyForLobSystem** WSDL operation.
GenerateProxyAssemblyForLobSystemResponse	The result data for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_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/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_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/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries BdcExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries InvalidOperationExcepti
onFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
</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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **MetadataObject** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage	The request WSDL message for the **GetAccessControlEntries** WSDL operation.
BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage	The response WSDL message for the **GetAccessControlEntries** WSDL operation.

3.1.4.20.1.1 BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetAccessControlEntries	The input data for the **GetAccessControlEntries** WSDL operation.
GetAccessControlEntriesResponse	The result data for the **GetAccessControlEntries** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
      <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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionById ArgumentExceptionFault FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionById ArgumentNullExceptionFault FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetActionById MetadataExceptionStateFault Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionById_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Action** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.21.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetActionById_InputMessage	The request WSDL message for the **GetActionById** WSDL operation.
BusinessDataCatalogSharedService_GetActionById_OutputMessage	The response WSDL message for the **GetActionById** WSDL operation.

3.1.4.21.1.1 BusinessDataCatalogSharedService_GetActionById_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetActionById	The input data for the **GetActionById** WSDL operation.
GetActionByIdResponse	The result data for the **GetActionById** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
</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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetActionParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionParameterById ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionParameterById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified ActionParameter does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.22.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetActionParameterById_InputMessage	The request WSDL message for the **GetActionParameterById** WSDL operation.
BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage	The response WSDL message for the **GetActionParameterById** WSDL operation.

3.1.4.22.1.1 BusinessDataCatalogSharedService_GetActionParameterById_InputMessage

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

Copyright © 2016 Microsoft Corporation

The SOAP action value is:

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

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
GetActionParameterById	The input data for the **GetActionParameterById** WSDL operation.
GetActionParameterByIdResponse	The result data for the **GetActionParameterById** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
    <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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionF
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/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction ArgumentOutOfRange
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/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction BdcExceptionStateF
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/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction InvalidOperationEx
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/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionS
tateFault_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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.<36>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Action** 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
BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage	The request WSDL message for the **GetActionParametersForAction** WSDL operation.
BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage	The response WSDL message for the **GetActionParametersForAction** WSDL operation.

Copyright © 2016 Microsoft Corporation

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
GetActionParametersForAction	The input data for the **GetActionParametersForAction** WSDL operation.
GetActionParametersForActionResponse	The result data for the **GetActionParametersForAction** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

```
<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
ArrayOfActionParameterStruct	Contains a list of **ActionParameters** for an Action.

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.

Copyright © 2016 Microsoft Corporation

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 InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault
 FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage** response message, unless any 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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Entity** 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
BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage	The request WSDL message for the **GetActionsForEntity** WSDL operation.
BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage	The response WSDL message for the **GetActionsForEntity** WSDL operation.

3.1.4.24.1.1 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
GetActionsForEntity	The input data for the **GetActionsForEntity** WSDL operation.
GetActionsForEntityResponse	The result data for the **GetActionsForEntity** WSDL operation.

3.1.4.24.2.1 GetActionsForEntity

Copyright © 2016 Microsoft Corporation

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.

3.1.4.24.2.2 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
ArrayOfActionStruct	Contains a list of Actions.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames ArgumentOutOfRangeExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames BdcExceptionStateFault Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFaul
t 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.<39>

3.1.4.25.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage	The request WSDL message for the **GetAllLocalizedNames** WSDL operation.
BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage	The response WSDL message for the **GetAllLocalizedNames** WSDL operation.

3.1.4.25.1.1 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/Get
AllLocalizedNames
```

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

3.1.4.25.1.2 BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage

Copyright © 2016 Microsoft Corporation

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
GetAllLocalizedNames	The input data for the **GetAllLocalizedNames** WSDL operation.
GetAllLocalizedNamesResponse	The result data for the **GetAllLocalizedNames** WSDL operation.

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 **Setting** and the specified **Setting**. If a localized name for a given LCID exists for both the default **Setting** and the specified **Setting**, only the localized name from the specified **Setting** MUST be returned.
False	The protocol server MUST return the localized names only for the specified **Setting**.

3.1.4.25.2.2 GetAllLocalizedNamesResponse

The **GetAllLocalizedNamesResponse** element specifies the result data for the **GetAllLocalizedNames** WSDL operation.

Copyright © 2016 Microsoft Corporation

```
<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/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inp
utMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Out
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bdc
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inv
alidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_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
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **MetadataObject** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage	The request WSDL message for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage	The response WSDL message for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

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
GetAllLocalizedNamesForMetadataObjectStruct	The input data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.
GetAllLocalizedNamesForMetadataObjectStructResponse	The result data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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 **Setting** in the case where a localized name with the same LCID does not exist for the specified **Setting**.
False	The protocol server MUST return the localized names only for the specified **Setting**.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetAllPartitionIds"
message="tns:BusinessDataCatalogSharedService GetAllPartitionIds InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.27.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage	The request WSDL message for the **GetAllPartitionIds** WSDL operation.
BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage	The response WSDL message for the **GetAllPartitionIds** WSDL operation.

3.1.4.27.1.1 BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage

Copyright © 2016 Microsoft Corporation

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

The SOAP action value is:

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

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

3.1.4.27.1.2 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
GetAllPartitionIds	The input data for the **GetAllPartitionIds** WSDL operation.
GetAllPartitionIdsResponse	The result data for the **GetAllPartitionIds** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

Complex type	Description
ArrayOfguid	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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAllProperties ArgumentExceptionFault FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_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/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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, and the specified **MetadataObject** is an LobSystem or LobSystemInstance.
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetAllProperties_InputMessage	The request WSDL message for the **GetAllProperties** WSDL operation.
BusinessDataCatalogSharedService_GetAllProperties_OutputMessage	The response WSDL message for the **GetAllProperties** WSDL operation.

3.1.4.28.1.1 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/Get
AllProperties
```

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
GetAllProperties	The input data for the **GetAllProperties** WSDL operation.
GetAllPropertiesResponse	The result data for the **GetAllProperties** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/">
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllPropertiesForMetadataObjectStruct BdcExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAllPropertiesForMetadataObjectStruct Invalid
OperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metadat
aExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	client is operating is not authorized to modify the specified MetadataObject, and the specified **MetadataObject** is an LobSystem or LobSystemInstance.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **MetadataObject** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.

3.1.4.29.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage	The request WSDL message for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.
BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage	The response WSDL message for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

3.1.4.29.1.1 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

Copyright © 2016 Microsoft Corporation

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

Element	Description
GetAllPropertiesForMetadataObjectStruct	The input data for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.
GetAllPropertiesForMetadataObjectStructResponse	The result data for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

3.1.4.29.2.1 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationById 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/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_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/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_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/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_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/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An **Association** with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.30.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAssociationById_InputMessage	The request WSDL message for the **GetAssociationById** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationById_OutputMessage	The response WSDL message for the **GetAssociationById** WSDL operation.

3.1.4.30.1.1 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/Get
AssociationById
```

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

Copyright © 2016 Microsoft Corporation

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
GetAssociationById	The input data for the **GetAssociationById** WSDL operation.
GetAssociationByIdResponse	The result data for the **GetAssociationById** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById 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/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById 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/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/BusinessDataCatalogShar
edService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An AssociationGroup with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.31.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage	The request WSDL message for the **GetAssociationGroupById** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage	The response WSDL message for the **GetAssociationGroupById** WSDL operation.

3.1.4.31.1.1 BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetAssociationGroupById	The input data for the **GetAssociationGroupById** WSDL operation.
GetAssociationGroupByIdResponse	The result data for the **GetAssociationGroupById** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
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 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/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataException
StateFault_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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified **MetadataObjectId** is 0.<41>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Entity with the specified **MetadataObjectId** 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
BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage	The request WSDL message for the **GetAssociationGroupsForEntity** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage	The response WSDL message for the **GetAssociationGroupsForEntity** WSDL operation.

Copyright © 2016 Microsoft Corporation

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
GetAssociationGroupsForEntity	The input data for the **GetAssociationGroupsForEntity** WSDL operation.
GetAssociationGroupsForEntityResponse	The result data for the **GetAssociationGroupsForEntity** WSDL operation.

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.

3.1.4.32.2.2 GetAssociationGroupsForEntityResponse

The **GetAssociationGroupsForEntityResponse** element specifies the result data for the **GetAssociationGroupsForEntity** WSDL operation.

Copyright © 2016 Microsoft Corporation

```
<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
ArrayOfAssociationGroupStruct	Contains a list of AssociationGroups.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_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/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_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/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_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/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_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/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_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/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionSt
ateFault_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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is set to zero, or the value of the **role** parameter is not zero or 1.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Association** does not exist, or does not refer to any **Entities**.

3.1.4.33.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage	The request WSDL message for the **GetAssociationMembersInRole** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage	The response WSDL message for the **GetAssociationMembersInRole** WSDL operation.

3.1.4.33.1.1 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
GetAssociationMembersInRole	The input data for the **GetAssociationMembersInRole** WSDL operation.

Copyright © 2016 Microsoft Corporation

Element	Description
GetAssociationMembersInRoleResponse	The result data for the **GetAssociationMembersInRole** WSDL operation.

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 **Entities** are returned.
1	Only destination **Entities** 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

Copyright © 2016 Microsoft Corporation

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

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

3.1.4.33.3.1 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.

Copyright © 2016 Microsoft Corporation

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 **Entity** is a source of the **Association**.
1	The **Entity** is the destination of the **Association**.

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/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_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/GetAssociationReferencesForAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_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/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
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 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/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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified AssociationGroup does not exist. <43>

3.1.4.34.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage	The request WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage	The response WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

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/Get
AssociationReferencesForAssociationGroup
```

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
GetAssociationReferencesForAssociationGroup	The input data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.
GetAssociationReferencesForAssociationGroupResponse	The result data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

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"/>
```


Copyright © 2016 Microsoft Corporation

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

associationGroupId: The MetadataObjectId for the AssociationGroup.

partitionId: An empty GUID.

3.1.4.34.2.2 GetAssociationReferencesForAssociationGroupResponse

The **GetAssociationReferencesForAssociationGroupResponse** element specifies the result data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

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

GetAssociationReferencesForAssociationGroupResult: The list of AssociationReferences. The Partition of each **AssociationReference** in the list MUST be 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
ArrayOfAssociationReferenceStruct	Contains a list of AssociationReferences.

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>
```

AssociationReferenceStruct: An AssociationReference.

3.1.4.34.4 Simple Types

None.

Copyright © 2016 Microsoft Corporation

3.1.4.34.5 Attributes

None.

3.1.4.34.6 Groups

None.

3.1.4.34.7 Attribute Groups

None.

3.1.4.35 GetAssociationsForDataClass

This operation is used to retrieve the Associations that are contained by the specified DataClass.

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

```
<wsdl:operation name="GetAssociationsForDataClass"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass 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/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass 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/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForDataClass 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/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_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/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
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"/>
```


Copyright © 2016 Microsoft Corporation

```
</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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **DataClass** 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
BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage	The request WSDL message for the **GetAssociationsForDataClass** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage	The response WSDL message for the **GetAssociationsForDataClass** WSDL operation.

3.1.4.35.1.1 BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage

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

The SOAP action value is:

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

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

Copyright © 2016 Microsoft Corporation

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
GetAssociationsForDataClass	The input data for the **GetAssociationsForDataClass** WSDL operation.
GetAssociationsForDataClassResponse	The result data for the **GetAssociationsForDataClass** WSDL operation.

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>
```

GetAssociationsForDataClassResult: The list of Associations.

3.1.4.35.3 Complex Types

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForEntityAndRole 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/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForEntityAndRole 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/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperatio
nExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForEntityAndRole MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is set to zero, or the **role** parameter is not set to zero or 1.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage	The request WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage	The response WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation.

3.1.4.36.1.1 BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetAssociationsForEntityAndRole	The input data for the **GetAssociationsForEntityAndRole** WSDL operation.
GetAssociationsForEntityAndRoleResponse	The result data for the **GetAssociationsForEntityAndRole** WSDL operation.

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 **Entity** is a source of the **Association**.
1	The **Entity** is the destination of the **Association**.

Copyright © 2016 Microsoft Corporation

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 **Associations** that match the search criteria only if they do not reference an **Entity** that is not active.
False	Return all **Associations** that match the search criteria.

partitionId: An empty GUID.

3.1.4.36.2.2 GetAssociationsForEntityAndRoleResponse

The **GetAssociationsForEntityAndRoleResponse** element specifies the result data for the **GetAssociationsForEntityAndRole** WSDL operation.

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

GetAssociationsForEntityAndRoleResult: The list of Associations.

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.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage	The request WSDL message for the **GetAssociationsForMethod** WSDL operation.
BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage	The response WSDL message for the **GetAssociationsForMethod** WSDL operation.

3.1.4.37.1.1 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
GetAssociationsForMethod	The input data for the **GetAssociationsForMethod** WSDL operation.
GetAssociationsForMethodResponse	The result data for the **GetAssociationsForMethod** WSDL operation.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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_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"/>
```


Copyright © 2016 Microsoft Corporation

```
</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
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage	The request WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage	The response WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.

3.1.4.38.1.1 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/GetCacheInvalidationRecordsSince
```

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
GetCacheInvalidationRecordsSince	The input data for the **GetCacheInvalidationRecordsSince** WSDL operation.
GetCacheInvalidationRecordsSinceResponse	The result data for the **GetCacheInvalidationRecordsSince** WSDL operation.

3.1.4.38.2.1 GetCacheInvalidationRecordsSince

Copyright © 2016 Microsoft Corporation

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
ArrayOfCacheInvalidationRecordStruct	Contains a cache version stamps.
CacheInvalidationRecordStruct	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.

Copyright © 2016 Microsoft Corporation

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"
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	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.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage	The request WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.
BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage	The response WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

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
GetChildTypeDescriptorsForTypeDescriptor	The input data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.
GetChildTypeDescriptorsForTypeDescriptorResponse	The result data for the **GetChildTypeDescriptorsForTypeDescriptor** 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>
```


Copyright © 2016 Microsoft Corporation

```
    <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>

Copyright © 2016 Microsoft Corporation

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/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" 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 GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

Copyright © 2016 Microsoft Corporation

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

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **TypeDescriptor** is 0. <50>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **TypeDescriptor** does not exist.<51>

3.1.4.40.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage	The request WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.
BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage	The response WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

3.1.4.40.1.1 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.

Copyright © 2016 Microsoft Corporation

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
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor	The input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse	The result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetDataClassById"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById ArgumentExceptionFault FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById ArgumentNullExceptionFault Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassById ArgumentOutOfRangeExceptionFau
lt_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>
```


Copyright © 2016 Microsoft Corporation

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

3.1.4.41.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetDataClassById_InputMessage	The request WSDL message for the **GetDataClassById** WSDL operation.
BusinessDataCatalogSharedService_GetDataClassById_OutputMessage	The response WSDL message for the **GetDataClassById** WSDL operation.

3.1.4.41.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
GetDataClassById	The input data for the **GetDataClassById** WSDL operation.
GetDataClassByIdResponse	The result data for the **GetDataClassById** WSDL operation.

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.

3.1.4.41.2.2 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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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_InvalidOperationExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist.<52>

3.1.4.42.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage	The request WSDL message for the **GetDataClassesForSystem** WSDL operation.
BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage	The response WSDL message for the **GetDataClassesForSystem** WSDL operation.

3.1.4.42.1.1 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.

Copyright © 2016 Microsoft Corporation

3.1.4.42.2 Elements

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

Element	Description
GetDataClassesForSystem	The input data for the **GetDataClassesForSystem** WSDL operation.
GetDataClassesForSystemResponse	The result data for the **GetDataClassesForSystem** WSDL operation.

3.1.4.42.2.1 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>
```

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.

3.1.4.42.2.2 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.

Copyright © 2016 Microsoft Corporation

Complex type	Description
ArrayOfDataClassStruct	Contains a list of DataClasses.

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/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A TypeDescriptor with specified **MetadataObjectId** 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
BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescript	The request WSDL message for

Copyright © 2016 Microsoft Corporation

Message	Description
or_InputMessage	the **GetDefaultValuesForTypeDescriptor** WSDL operation.
BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage	The response WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

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
GetDefaultValuesForTypeDescriptor	The input data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.
GetDefaultValuesForTypeDescriptorResponse	The result data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
  </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
ArrayOfDefaultValueStruct	Contains a list of DefaultValues.

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

Copyright © 2016 Microsoft Corporation

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"
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentOutOfRangeException (section 2.2.4.9)	One of the following conditions applies: ▪ The specified MetadataObjectId is 0. ▪ The **role** parameter is not set to zero or 1.<53>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Association does not 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
BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage	The request WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.
BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage	The response WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

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/Get
EntitiesForAssociationAndRole
```


Copyright © 2016 Microsoft Corporation

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
GetEntitiesForAssociationAndRole	The input data for the **GetEntitiesForAssociationAndRole** WSDL operation.
GetEntitiesForAssociationAndRoleResponse	The result data for the **GetEntitiesForAssociationAndRole** WSDL operation.

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 **Entities** are sources of the **Association**.
1	The **Entities** are destinations of the **Association**.

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.

Copyright © 2016 Microsoft Corporation

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 LobSystem.

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

```
<wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptio
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/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFaul
t_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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage	The request WSDL message for the **GetEntitiesForSystem** WSDL operation.
BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage	The response WSDL

Copyright © 2016 Microsoft Corporation

Message	Description
	message for the **GetEntitiesForSystem** WSDL operation.

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
GetEntitiesForSystem	The input data for the **GetEntitiesForSystem** WSDL operation.
GetEntitiesForSystemResponse	The result data for the **GetEntitiesForSystem** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

```
<wsdl:operation name="GetEntitiesLikeNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace ArgumentExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace ArgumentNullExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntitiesLikeNameAndNamespace ArgumentOutOfRa
ngeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSta
teFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperatio
nExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage** response message, unless any 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
ArgumentException (section 2.2.4.7)	One of the following conditions applies:

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ The length of the **wildcardedName** exceeds 255 characters. ▪ The length of the **wildcardedNamespace** exceeds 255 characters. ▪ The specified **wildcardedName** is invalid. ▪ The specified **wildcardedNamespace** is invalid.

3.1.4.46.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage	The request WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.
BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage	The response WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

3.1.4.46.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
GetEntitiesLikeNameAndNamespace	The input data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.
GetEntitiesLikeNameAndNamespaceResponse	The result data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

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
```


Copyright © 2016 Microsoft Corporation

```
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 LobSystems.

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.

Copyright © 2016 Microsoft Corporation

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_ArgumentNullExce
ptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRan
geExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperation
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptio
nStateFault_FaultMessage" xmlns: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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage	The request WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.
BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage	The response WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

3.1.4.47.1.1 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
GetEntitiesReferencedByModelId	The input data for the **GetEntitiesReferencedByModelId** WSDL operation.
GetEntitiesReferencedByModelIdResponse	The result data for the **GetEntitiesReferencedByModelId** WSDL operation.

Copyright © 2016 Microsoft Corporation

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.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>
```

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.

Copyright © 2016 Microsoft Corporation

Simple type	Description
EntityConstants.EntitiesInModelQuery	Contains a list of Entities 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:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
AllEntitiesInModel	Return all **Entities** referenced by the specified Model.
OwnedEntitiesInModel	Returned **Entities** MUST be referenced only in the specified **Model**.
SharedEntitiesInModel	Returned **Entities** MUST be referenced in the specified **Model** and in other **Models**.

3.1.4.47.5 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"
```


Copyright © 2016 Microsoft Corporation

```
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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_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/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityById 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/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/BusinessDataCatalogShar
edService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityById 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/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_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/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_Fault
Message" 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Entity with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.48.1 Messages

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

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetEntityById_InputMessage	The request WSDL message for the **GetEntityById** WSDL operation.
BusinessDataCatalogSharedService_GetEntityById_OutputMessage	The response WSDL message for the **GetEntityById** WSDL operation.

3.1.4.48.1.1 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/Get
EntityById
```

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
GetEntityById	The input data for the **GetEntityById** WSDL operation.
GetEntityByIdResponse	The result data for the **GetEntityById** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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>
```

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetEntityCountResponse"
```


Copyright © 2016 Microsoft Corporation

```
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/BusinessDataCatalogShar
edService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_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/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_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/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 **BusinessDataCalatogSharedService_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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is set to zero. <57>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist.<58>

3.1.4.49.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetEntityCount_InputMessage	The request WSDL message for

Copyright © 2016 Microsoft Corporation

Message	Description
	the **GetEntityCount** WSDL operation.
BusinessDataCatalogSharedService_GetEntityCount_OutputMessage	The response WSDL message for the **GetEntityCount** WSDL operation.

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/Get
EntityCount
```

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
GetEntityCount	The input data for the **GetEntityCount** WSDL operation.
GetEntityCountResponse	The result data for the **GetEntityCount** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
 ArgumentExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
 ArgumentOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityNameAndNamespacesForAssociationAndRole
_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCalatogSharedService_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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Association does not exist. <59>

3.1.4.50.1 Messages

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

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage	The request WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.
BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage	The response WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

3.1.4.50.1.1 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
GetEntityNameAndNamespacesForAssociationAndRole	The input data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.
GetEntityNameAndNamespacesForAssociationAndRoleResponse	The result data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

3.1.4.50.2.1 GetEntityNameAndNamespacesForAssociationAndRole

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

Copyright © 2016 Microsoft Corporation

```
<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 **Entities** that are referenced as **Association** source by the specified **Association**.
1	Return information for **Entities** that are referenced as **Association** destination by the specified **Association**.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespace"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespace InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespace OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentException
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRang
eExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespace BdcExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespace InvalidOperationE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataException
StateFault 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
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The specified namespace length exceeds 255 characters. ▪ The specified name length exceeds 255 characters.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage	The request WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage	The response WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

3.1.4.51.1.1 BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage

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

Copyright © 2016 Microsoft Corporation

The SOAP action value is:

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

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
GetEntityWithNameAndNamespace	The input data for the **GetEntityWithNameAndNamespace** WSDL operation.
GetEntityWithNameAndNamespaceResponse	The result data for the **GetEntityWithNameAndNamespace** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
    <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/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersion"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invalid
OperationExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage** response message, unless any 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
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The specified namespace length exceeds 255 characters. ▪ The specified name length exceeds 255 characters.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An **Entity** with the specified namespace and name and version does not exist in the specified Partition.

3.1.4.52.1 Messages

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

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage	The request WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.
BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage	The response WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

3.1.4.52.1.1 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
GetEntityWithNameAndNamespaceAndVersion	The input data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.
GetEntityWithNameAndNamespaceAndVersionResponse	The result data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
    <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.

3.1.4.52.2.2 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance InputMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService GetFieldTypeDescriptorsByMethodInstance OutputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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.

Copyright © 2016 Microsoft Corporation

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

Error complex type	Condition
InvalidOperationException (section 2.2.4.38)	The **MethodInstanceType** of the MethodInstance with the specified name on the specified Entity is not equal to any one of the following: ▪ Finder ▪ SpecificFinder ▪ IdEnumerator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ BulkSpecificFinder ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ Creator ▪ Updater
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A **MethodInstance** with the specified name does not exist on the specified **Entity**.

3.1.4.53.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage	The request WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.
BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage	The response WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

3.1.4.53.1.1 BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage

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

Copyright © 2016 Microsoft Corporation

The SOAP action value is:

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

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
GetFieldTypeDescriptorsByMethodInstance	The input data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.
GetFieldTypeDescriptorsByMethodInstanceResponse	The result data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

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="methodInstanceName" 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>
```

methodInstanceName: 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">
```


Copyright © 2016 Microsoft Corporation

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

GetFieldTypeDescriptorsByMethodInstanceResult: The list of TypeDescriptors.

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_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
```


Copyright © 2016 Microsoft Corporation

```
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetFilterDescriptorById 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/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/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetFilterDescriptorById 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/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateF
ault_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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A FilterDescriptor with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.54.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage	The request WSDL message for the **GetFilterDescriptorById** WSDL operation.
BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage	The response WSDL message for the **GetFilterDescriptorById** WSDL operation.

Copyright © 2016 Microsoft Corporation

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
GetFilterDescriptorById	The input data for the **GetFilterDescriptorById** WSDL operation.
GetFilterDescriptorByIdResponse	The result data for the **GetFilterDescriptorById** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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"/>
```


Copyright © 2016 Microsoft Corporation

```
  <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
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the Method is 0.<60>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A **Method** with the specified **MetadataObjectId** 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
BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage	The request WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage	The response WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

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
GetFilterDescriptorsForMethod	The input data for the **GetFilterDescriptorsForMethod** WSDL operation.
GetFilterDescriptorsForMethodResponse	The result data for the **GetFilterDescriptorsForMethod** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

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>
```

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
ArrayOfFilterDescriptorStruct	Contains a list of FilterDescriptors.

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

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An Identifier with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.56.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetIdentifierById_InputMessage	The request WSDL message for the **GetIdentifierById** WSDL operation.
BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage	The response WSDL message for the **GetIdentifierById** WSDL operation.

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
GetIdentifierById	The input data for the **GetIdentifierById** WSDL operation.
GetIdentifierByIdResponse	The result data for the **GetIdentifierById** WSDL operation.

Copyright © 2016 Microsoft Corporation

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: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.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the Entity is 0.<62>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An **Entity** with the specified **MetadataObjectId** does not exist.<63>

3.1.4.57.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage	The request WSDL message for the **GetIdentifiersForEntity** WSDL operation.
BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage	The response WSDL message for the **GetIdentifiersForEntity** WSDL operation.

3.1.4.57.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
GetIdentifiersForEntity	The input data for the **GetIdentifiersForEntity** WSDL operation.
GetIdentifiersForEntityResponse	The result data for the **GetIdentifiersForEntity** WSDL operation.

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
ArrayOfIdentifierStruct	Contains a list of Identifiers.

3.1.4.57.3.1 ArrayOfIdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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.

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_GetImportProgress_InputMessage	The request WSDL message for the **GetImportProgress** WSDL operation.
BusinessDataCatalogSharedService_GetImportProgress_OutputMessage	The response WSDL message for the **GetImportProgress** WSDL operation.

3.1.4.58.1.1 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/Get
ImportProgress
```

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
GetImportProgress	The input data for the **GetImportProgress** WSDL operation.
GetImportProgressResponse	The result data for the **GetImportProgress** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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>
```

GetImportProgressResult: The fraction of the operation that is finished. The value MUST be between 0 and 1 inclusive. The value MUST be 0 if **jobId** is not recognized as a current import job.

3.1.4.58.3 Complex Types

None.

3.1.4.58.4 Simple Types

None.

3.1.4.58.5 Attributes

None.

3.1.4.58.6 Groups

None.

3.1.4.58.7 Attribute Groups

None.

3.1.4.59 GetLevelForTypeDescriptor

This operation retrieves the depth of the specified TypeDescriptor in the **TypeDescriptor** tree that contains the specified **TypeDescriptor**. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth 0. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1 plus the depth of the containing **TypeDescriptor**.

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

```
<wsdl:operation name="GetLevelForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorResponse"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStat
eFault_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
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **TypeDescriptor** is 0.<64>

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One of the following conditions applies: ▪ The specified **TypeDescriptor** does not exist.<65> ▪ The specified **TypeDescriptor** is not the root of the **TypeDescriptor** tree and the parent of the specified **TypeDescriptor** does not exist. ▪ An ancestor of the specified **TypeDescriptor** is not the root of the **TypeDescriptor** tree that contains the specified **TypeDescriptor** and the parent of the ancestor does not exist.

3.1.4.59.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage	The request WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.
BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage	The response WSDL message for the **GetLevelForTypeDescriptor** 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.

Copyright © 2016 Microsoft Corporation

3.1.4.59.2 Elements

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

Element	Description
GetLevelForTypeDescriptor	The input data for the **GetLevelForTypeDescriptor** WSDL operation.
GetLevelForTypeDescriptorResponse	The result data for the **GetLevelForTypeDescriptor** WSDL operation.

3.1.4.59.2.1 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>
```

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.

Copyright © 2016 Microsoft Corporation

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"/>
```


Copyright © 2016 Microsoft Corporation

```
</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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read the specified **LobSystem**.<67>
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **LobSystem** 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
BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage	The request WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage	The response WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

3.1.4.60.1.1 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
```


Copyright © 2016 Microsoft Corporation

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
GetLobSystemAllAssembliesBytes	The input data for the **GetLobSystemAllAssembliesBytes** WSDL operation.
GetLobSystemAllAssembliesBytesResponse	The result data for the **GetLobSystemAllAssembliesBytes** 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.

Copyright © 2016 Microsoft Corporation

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
ArrayOfbase64Binary	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
```


Copyright © 2016 Microsoft Corporation

```
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_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/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
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: ▪ The security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId. ▪ An LobSystem with the specified MetadataObjectId does not exist and the value of the **performErrorCheck** element is "false".<68>

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified **MetadataObjectId** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An **LobSystem** with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.61.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetLobSystemById_InputMessage	The request WSDL message for the **GetLobSystemById** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage	The response WSDL message for the **GetLobSystemById** WSDL operation.

3.1.4.61.1.1 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
GetLobSystemById	The input data for the **GetLobSystemById** WSDL operation.
GetLobSystemByIdResponse	The result data for the **GetLobSystemById** WSDL operation.

3.1.4.61.2.1 GetLobSystemById

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetLobSystemByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read<69> the specified LobSystem.
ArgumentException (section 2.2.4.7)	The specified name length exceeds 255 characters.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **LobSystem** 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
BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage	The request WSDL message for the **GetLobSystemByName** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage	The response WSDL message for the **GetLobSystemByName** WSDL operation.

3.1.4.62.1.1 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

Copyright © 2016 Microsoft Corporation

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
GetLobSystemByName	The input data for the **GetLobSystemByName** WSDL operation.
GetLobSystemByNameResponse	The result data for the **GetLobSystemByName** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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_ArgumentExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionSt
ateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read the specified LobSystem.<71>
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **LobSystem** is 0.<72>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **LobSystem** does not exist.

3.1.4.63.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage	The request WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage	The response WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

3.1.4.63.1.1 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/Get
LobSystemDataByLobSystem
```


Copyright © 2016 Microsoft Corporation

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
GetLobSystemDataByLobSystem	The input data for the **GetLobSystemDataByLobSystem** WSDL operation.
GetLobSystemDataByLobSystemResponse	The result data for the **GetLobSystemDataByLobSystem** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemInstanceById BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemInstanceById InvalidOperationExcept
ionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionState
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: ▪ The security principal (2) in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId. ▪ An LobSystemInstance with the specified MetadataObjectId does not exist and the value of the **performErrorCheck** element is "false".<74>
ArgumentOutOfRangeException (section 2.2.4.9)	The specified **MetadataObjectId** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	An **LobSystemInstance** with the specified **MetadataObjectId** does not exist and

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	the value of the **performErrorCheck** element is **true**.

3.1.4.64.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage	The request WSDL message for the **GetLobSystemInstanceById** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage	The response WSDL message for the **GetLobSystemInstanceById** WSDL operation.

3.1.4.64.1.1 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
GetLobSystemInstanceById	The input data for the **GetLobSystemInstanceById** WSDL operation.
GetLobSystemInstanceByIdResponse	The result data for the **GetLobSystemInstanceById** WSDL operation.

Copyright © 2016 Microsoft Corporation

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: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.

Copyright © 2016 Microsoft Corporation

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**

Copyright © 2016 Microsoft Corporation

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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <76>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified LobSystem does not exist. <77>

3.1.4.65.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage	The request WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage	The response WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

3.1.4.65.1.1 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.

Copyright © 2016 Microsoft Corporation

3.1.4.65.2 Elements

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

Element	Description
GetLobSystemInstancesForLobSystem	The input data for the **GetLobSystemInstancesForLobSystem** WSDL operation.
GetLobSystemInstancesForLobSystemResponse	The result data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

3.1.4.65.2.1 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.

Copyright © 2016 Microsoft Corporation

Complex type	Description
ArrayOfLobSystemInstanceStruct	Contains a list of LobSystemInstances.

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"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemProxyAssemblyBytesByLobSystemId Arg
umentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentOutOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bdc
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemProxyAssemblyBytesByLobSystemId 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/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Met
adataExceptionStateFault_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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to read<79> the specified LobSystem.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified LobSystem is

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	0.
InvalidMetadataPropertyExceptionState (section 2.2.4.38)	The specified LobSystem has an invalid value for the Property named "SystemUtilityTypeName". The validity of this Property is specified in section 3.1.4.82.2.2.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	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
BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage	The request WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage	The response WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

3.1.4.66.1.1 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.

Copyright © 2016 Microsoft Corporation

3.1.4.66.2 Elements

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

Element	Description
GetLobSystemProxyAssemblyBytesByLobSystemId	The input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.
GetLobSystemProxyAssemblyBytesByLobSystemIdResponse	The result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

3.1.4.66.2.1 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<80> 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.

Copyright © 2016 Microsoft Corporation

3.1.4.66.4 Simple Types

None.

3.1.4.66.5 Attributes

None.

3.1.4.66.6 Groups

None.

3.1.4.66.7 Attribute Groups

None.

3.1.4.67 GetLobSystemsLikeName

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.<81>

An **LobSystem** matches the wildcard pattern specified by **searchLikeName** if and only if **searchLikeName** matches the name of the **LobSystem**, or the localized name of the **LobSystem** with LCID 0, or the localized name of the **LobSystem** with the LCID specified by **callerCultureLcid**.

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

```
<wsdl:operation name="GetLobSystemsLikeName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName 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/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_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/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName 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/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_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/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_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/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFau
lt 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
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The length of the specified wildcard pattern exceeds 255 characters. ▪ The format of the specified wildcard pattern is invalid.

3.1.4.67.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage	The request WSDL message for the **GetLobSystemsLikeName** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage	The response WSDL message for the **GetLobSystemsLikeName** WSDL operation.

3.1.4.67.1.1 BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetLobSystemsLikeName	The input data for the **GetLobSystemsLikeName** WSDL operation.
GetLobSystemsLikeNameResponse	The result data for the **GetLobSystemsLikeName** WSDL operation.

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
```


Copyright © 2016 Microsoft Corporation

```
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"
```


Copyright © 2016 Microsoft Corporation

```
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/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFaul
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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.<83>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Model 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
BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage	The request WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.
BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage	The response WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

3.1.4.68.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
GetLobSystemsReferencedByEntitiesAssociatedWithModel	The input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.
GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse	The result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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
LobSystemConstants.LobSystemsInModelQuery	Specifics the mode in which to retrieve LobSystems.

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 **LobSystems** referenced by the specified Model.
OwnedLobSystemsInModel	**LobSystems** referenced only by the specified **Model**. The returned **LobSystems** MUST not include **LobSystems** that are referenced by other **Models**.
SharedLobSystemsInModel	**LobSystems** referenced by the specified **Model** and by other **Models**. The returned **LobSystems** MUST not include **LobSystems** that are referenced only by the specified **Model**.

3.1.4.68.5 Attributes

None.

3.1.4.68.6 Groups

None.

3.1.4.68.7 Attribute Groups

None.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetMethodById"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodById ArgumentNullExceptionFault FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodById ArgumentOutOfRangeExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetMethodById BdcExceptionStateFault FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetMethodById MetadataExceptionStateFault Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodById_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A Method with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.69.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetMethodById_InputMessage	The request WSDL message for the **GetMethodById** WSDL operation.
BusinessDataCatalogSharedService_GetMethodById_OutputMessage	The response WSDL message for the **GetMethodById** WSDL operation.

3.1.4.69.1.1 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
GetMethodById	The input data for the **GetMethodById** WSDL operation.
GetMethodByIdResponse	The result data for the **GetMethodById** WSDL operation.

3.1.4.69.2.1 GetMethodById

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

Copyright © 2016 Microsoft Corporation

```
<xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The MetadataObjectId 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.

Copyright © 2016 Microsoft Corporation

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 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/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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A MethodInstance with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.70.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage	The request WSDL message for the **GetMethodInstanceById** WSDL operation.
BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage	The response WSDL message for the **GetMethodInstanceById** WSDL operation.

3.1.4.70.1.1 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
GetMethodInstanceById	The input data for the **GetMethodInstanceById** WSDL operation.
GetMethodInstanceByIdResponse	The result data for the **GetMethodInstanceById** WSDL operation.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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 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/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

Copyright © 2016 Microsoft Corporation

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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	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
BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage	The request WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.
BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage	The response WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.

3.1.4.71.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
GetMethodInstancesForDataClass	The input data for the **GetMethodInstancesForDataClass** WSDL operation.
GetMethodInstancesForDataClassResponse	The result data for the **GetMethodInstancesForDataClass** 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.

Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage	The request WSDL message for the **GetMethodInstancesForMethod** WSDL operation.
BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage	The response WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

3.1.4.72.1.1 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.

Copyright © 2016 Microsoft Corporation

3.1.4.72.2 Elements

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

Element	Description
GetMethodInstancesForMethod	The input data for the **GetMethodInstancesForMethod** WSDL operation.
GetMethodInstancesForMethodResponse	The result data for the **GetMethodInstancesForMethod** WSDL operation.

3.1.4.72.2.1 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass 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/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_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/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass 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/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_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/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0. <87>
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage	The request WSDL message for the **GetMethodsForDataClass** WSDL operation.
BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage	The response WSDL message for the **GetMethodsForDataClass** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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

Element	Description
GetMethodsForDataClass	The input data for the **GetMethodsForDataClass** WSDL operation.
GetMethodsForDataClassResponse	The result data for the **GetMethodsForDataClass** WSDL operation.

3.1.4.73.2.1 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
ArrayOfMethodStruct	Contains a list of Methods.

3.1.4.73.3.1 ArrayOfMethodStruct

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetModelById"
message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelById ArgumentExceptionFault FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetModelById MetadataExceptionStateFault FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelById_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A Model with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.74.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetModelById_InputMessage	The request WSDL message for the **GetModelById** WSDL operation.
BusinessDataCatalogSharedService_GetModelById_OutputMessage	The response WSDL message for the **GetModelById** WSDL operation.

3.1.4.74.1.1 BusinessDataCatalogSharedService_GetModelById_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetModelById	The input data for the **GetModelById** WSDL operation.
GetModelByIdResponse	The result data for the **GetModelById** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

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

GetModelByIdResult: The Model.

3.1.4.74.3 Complex Types

None.

3.1.4.74.4 Simple Types

None.

3.1.4.74.5 Attributes

None.

3.1.4.74.6 Groups

None.

3.1.4.74.7 Attribute Groups

None.

3.1.4.75 GetModelByName

This operation is used to retrieve the specified Model.

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

```
<wsdl:operation name="GetModelByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByName"
message="tns:BusinessDataCatalogSharedService GetModelByName InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentException (section 2.2.4.7)	The length of the specified name exceeds 255 characters.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	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
BusinessDataCatalogSharedService_GetModelByName_InputMessage	The request WSDL message for the **GetModelByName** WSDL operation.
BusinessDataCatalogSharedService_GetModelByName_OutputMessage	The response WSDL message for the **GetModelByName** WSDL operation.

3.1.4.75.1.1 BusinessDataCatalogSharedService_GetModelByName_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
GetModelByName	The input data for the **GetModelByName** WSDL operation.
GetModelByNameResponse	The result data for the **GetModelByName** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelsByEntityId ArgumentExceptionFault 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/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/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_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/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_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/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Entity does not exist. <89>

3.1.4.76.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage	The request WSDL message for the **GetModelsByEntityId** WSDL operation.
BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage	The response WSDL message for the **GetModelsByEntityId** WSDL operation.

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/Get
ModelsByEntityId
```

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

Copyright © 2016 Microsoft Corporation

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
GetModelsByEntityId	The input data for the **GetModelsByEntityId** WSDL operation.
GetModelsByEntityIdResponse	The result data for the **GetModelsByEntityId** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetModelsByName"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelsByName ArgumentExceptionFault FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFaul
t FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <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
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The length of the specified wildcard pattern exceeds 255 characters. ▪ The format of the specified wildcard pattern is invalid.

3.1.4.77.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetModelsByName_InputMessage	The request WSDL message for the **GetModelsByName** WSDL operation.
BusinessDataCatalogSharedService_GetModelsByName_OutputMessage	The response WSDL message for the **GetModelsByName** WSDL operation.

3.1.4.77.1.1 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/Get
ModelsByName
```

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

Copyright © 2016 Microsoft Corporation

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
GetModelsByName	The input data for the **GetModelsByName** WSDL operation.
GetModelsByNameResponse	The result data for the **GetModelsByName** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

3.1.4.77.2.2 GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName** WSDL operation.

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

GetModelsByNameResult: The list of Models.

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
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataobjectNotFoundExceptionState (section 2.2.4.43)	A Parameter with the specified **MetadataObjectId** does not exist and the value of **performErrorCheck** element is **true**.

3.1.4.78.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetParameterById_InputMessage	The request WSDL message for the **GetParameterById** WSDL operation.
BusinessDataCatalogSharedService_GetParameterById_OutputMessage	The response WSDL message for the **GetParameterById** WSDL operation.

Copyright © 2016 Microsoft Corporation

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/Get
ParameterById
```

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
GetParameterById	The input data for the **GetParameterById** WSDL operation.
GetParameterByIdResponse	The result data for the **GetParameterById** 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.

3.1.4.78.2.2 GetParameterByIdResponse

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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"/>
```


Copyright © 2016 Microsoft Corporation

```
  <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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.<90>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified Method does not exist.<91>

3.1.4.79.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage	The request WSDL message for the **GetParametersForMethod** WSDL operation.
BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage	The response WSDL message for the **GetParametersForMethod** WSDL operation.

Copyright © 2016 Microsoft Corporation

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/Get
ParametersForMethod
```

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
GetParametersForMethod	The input data for the **GetParametersForMethod** WSDL operation.
GetParametersForMethodResponse	The result data for the **GetParametersForMethod** WSDL operation.

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>
```

methodId: The MetadataObjectId of the Method.

partitionId: An empty GUID.

3.1.4.79.2.2 GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod** WSDL operation.

Copyright © 2016 Microsoft Corporation

```
<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
ArrayOfParameterStruct	Contains a list of Parameters.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetRootTypeDescriptorForParameter 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/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage** response message, unless any 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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (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
BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage	The request WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.
BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage	The response WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

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
GetRootTypeDescriptorForParameter	The input data for the **GetRootTypeDescriptorForParameter** WSDL operation.
GetRootTypeDescriptorForParameterResponse	The result data for the **GetRootTypeDescriptorForParameter** WSDL operation.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetServiceApplicationId"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage** response message.

3.1.4.81.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage	The request WSDL message for the **GetServiceApplicationId** WSDL operation.
BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage	The response WSDL message for the **GetServiceApplicationId** WSDL operation.

3.1.4.81.1.1 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/Get
ServiceApplicationId
```

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

3.1.4.81.1.2 BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage

Copyright © 2016 Microsoft Corporation

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
GetServiceApplicationId	The input data for the **GetServiceApplicationId** WSDL operation.
GetServiceApplicationIdResponse	The result data for the **GetServiceApplicationId** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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_OutputMess
age" 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_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/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_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/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataEx
ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

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
ArgumentException (section 2.2.4.7)	The module cannot be found or loaded.
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
InvalidMetadataPropertyExceptionState (section 2.2.4.37)	The specified LobSystem has an invalid value for the Property named "SystemUtilityTypeName". Validity of this **Property** is specified in section 3.1.4.82.2.2.

3.1.4.82.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage	The request WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.
BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage	The response WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

3.1.4.82.1.1 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.

Copyright © 2016 Microsoft Corporation

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
GetSystemUtilityTypeNameForLobSystem	The input data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.
GetSystemUtilityTypeNameForLobSystemResponse	The result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

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

The **GetSystemUtilityTypeNameForLobSystemResponse** element specifies the result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

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

GetSystemUtilityTypeNameForLobSystemResult: The implementation-specific<92> identifier of the module that executes operations in the line-of-business (LOB) system.

3.1.4.82.3 Complex Types

Copyright © 2016 Microsoft Corporation

None.

3.1.4.82.4 Simple Types

None.

3.1.4.82.5 Attributes

None.

3.1.4.82.6 Groups

None.

3.1.4.82.7 Attribute Groups

None.

3.1.4.83 GetTypeDescriptorById

This operation is used to retrieve the TypeDescriptor with the specified MetadataObjectId.

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

```
<wsdl:operation name="GetTypeDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_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/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_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/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
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	A TypeDescriptor with the specified **MetadataObjectId** does not exist and the value of the **performErrorCheck** element is **true**.

3.1.4.83.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage	The request WSDL message for the **GetTypeDescriptorById** WSDL operation.
BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage	The response WSDL message for the **GetTypeDescriptorById** WSDL operation.

3.1.4.83.1.1 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/Get
TypeDescriptorById
```

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

Copyright © 2016 Microsoft Corporation

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
GetTypeDescriptorById	The input data for the **GetTypeDescriptorById** WSDL operation.
GetTypeDescriptorByIdResponse	The result data for the **GetTypeDescriptorById** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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
```


Copyright © 2016 Microsoft Corporation

```
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
ArgumentOutOfRangeException (section 2.2.4.9)	One of the following conditions applies: ▪ The specified MetadataObjectId is 0. ▪ The specified level is less than 0.

3.1.4.84.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage	The request WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.
BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage	The response WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

Copyright © 2016 Microsoft Corporation

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/Get
TypeDescriptorsByNameAndLevelForParameter
```

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
GetTypeDescriptorsByNameAndLevelForParameter	The input data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.
GetTypeDescriptorsByNameAndLevelForParameterResponse	The result data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

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"
```


Copyright © 2016 Microsoft Corporation

```
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
utOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOp
erationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataE
xceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The specified MetadataObjectId of the **FilterDescriptor** is 0.

3.1.4.85.1 Messages

Copyright © 2016 Microsoft Corporation

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

Message	Description
BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage	The request WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.
BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage	The response WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

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_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
GetTypeDescriptorsForFilterDescriptor	The input data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.
GetTypeDescriptorsForFilterDescriptorResponse	The result data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

3.1.4.85.2.1 GetTypeDescriptorsForFilterDescriptor

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

Copyright © 2016 Microsoft Corporation

```
<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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/GetTypeReflectorTypeNameForParameterResponse"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter OutputMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeReflectorTypeNameForParameter 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/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_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/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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
ArgumentException (section 2.2.4.7)	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.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId 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
BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage	The request WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.
BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage	The response WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

3.1.4.86.1.1 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
GetTypeReflectorTypeNameForParameter	The input data for the **GetTypeReflectorTypeNameForParameter** WSDL

Copyright © 2016 Microsoft Corporation

Element	Description
	operation.
GetTypeReflectorTypeNameForParameterResponse	The result data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_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/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/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetXmlSchemaForView 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/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_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/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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
ArgumentException (section 2.2.4.7)	The specified MethodInstance does not have a **View**.<95>
ArgumentNullException (section 2.2.4.8)	The specified **MethodInstance** does not have a ReturnTypeDescriptor and it is not an Updater or a Creator.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is greater than 0x7fffffff.
BdcExceptionState (section 2.2.4.25)	The specified **MethodInstance** 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
BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage	The request WSDL message for the **GetXmlSchemaForView** WSDL operation.
BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage	The response WSDL

Copyright © 2016 Microsoft Corporation

Message	Description
	message for the **GetXmlSchemaForView** WSDL operation.

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
GetXmlSchemaForView	The input data for the **GetXmlSchemaForView** WSDL operation.
GetXmlSchemaForViewResponse	The result data for the **GetXmlSchemaForView** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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 Entity that contains the

Copyright © 2016 Microsoft Corporation

Name	Value
	Identifier referenced by the **TypeDescriptor**.
EntityName	The name of the **Entity** that contains the **Identifier** referenced by the **TypeDescriptor**.
IdentifierIndex	The index of the **Identifier** referenced by the **TypeDescriptor**, within the **Entity** that contains the **Identifier**.
AssociationName	The name of the **Association** referenced by the **TypeDescriptor**

- 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 **Entity** that contains the **Identifier** referenced by the **TypeDescriptor**.
EntityName	The name of the **Entity** that contains the **Identifier** referenced by the **TypeDescriptor**.
IdentifierIndex	The index of the **Identifier** referenced by the **TypeDescriptor**, within the **Entity** that contains the **Identifier**.

- 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/HaveRights" message="tns:BusinessDataCatalogSharedService HaveRights InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns:BusinessDataCatalogSharedService HaveRights OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService HaveRights BdcExceptionStateFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService HaveRights InvalidOperationExceptionFault Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_HaveRights_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_HaveRights_OutputMessage** response message, unless any 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
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	MetadataObject is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
BusinessDataCatalogSharedService_HaveRights_InputMessage	The request WSDL message for the **HaveRights** WSDL operation.
BusinessDataCatalogSharedService_HaveRights_OutputMessage	The response WSDL message for the **HaveRights** WSDL operation.

3.1.4.88.1.1 BusinessDataCatalogSharedService_HaveRights_InputMessage

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

The SOAP action value is:

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

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

3.1.4.88.1.2 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
HaveRights	The input data for the **HaveRights** WSDL operation.
HaveRightsResponse	The result data for the **HaveRights** WSDL operation.

3.1.4.88.2.1 HaveRights

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

Copyright © 2016 Microsoft Corporation

```
<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
BdcRights	Specifies the permission given a security principal (1) on a MetadataObject.

3.1.4.88.4.1 BdcRights

Copyright © 2016 Microsoft Corporation

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 MethodInstance.
Edit	The security principal (2) has permission to change the attributes of a **MetadataObject** or its relationship to other **MetadataObjects**.
SetPermissions	The security principal (2) has permission to change the set of permissions for a **MetadataObject**.
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.
SelectableInClients	The security principal (2) has permission to select the **MetadataObject** this permission refers to in an implementation-specific user interface from a list of available **MetadataObjects**. If the security principal (2) does not have this permission, the **MetadataObject** 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:

Copyright © 2016 Microsoft Corporation

- 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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/ImportPackageResponse"
message="tns:BusinessDataCatalogSharedService ImportPackage OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/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"
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"
```


Copyright © 2016 Microsoft Corporation

```
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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to create or modify the specified Model.
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: ▪ The "Model" value is specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34. ▪ The "Model" value is not specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28. ▪ The value of the **updateModel** element is "false", the "Model" value is specified for **packageContents** element and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified Partition. ▪ The value of the **updateModel** element is "true", the "Model" value is specified for **packageContents** element and the **Model** contained by the **MetadataModel** does not exist in the specified **Partition**. ▪ The "Model" value is not specified for the **packageContents** element and at least one the **MetadataObjects** contained by the **MetadataModel** does not exist in the metadata store. ▪ The "Model" value is specified for the **packageContents** element and one of the **LobSystems** contained by the **MetadataModel** has the same name as an **LobSystem** in the metadata store, but the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store. ▪ The "Model" value is specified for the **packageContents** element and one of the **Entities** contained by the **MetadataModel** has the same name, namespace and version as an

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	Entity in the metadata store, but the names of the **LobSystems** that contain these **Entities** are not identical. ▪ The "InlineProxies" value is specified for the **packageContents** element and the specified **MetadataModel** contains **LobSystem** with an associated Business Logic Module. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one FilterDescriptor of type TimeStampFilter. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other TypeDescriptors. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this MethodInstance contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains MethodInstance, and the Method for which this **MethodInstance** is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values: ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ Disassociator ▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values: ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator

3.1.4.89.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_ImportPackage_InputMessage	The request WSDL message for the **ImportPackage** WSDL operation.
BusinessDataCatalogSharedService_ImportPackage_OutputMessage	The response WSDL message for the **ImportPackage** WSDL operation.

3.1.4.89.1.1 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

Copyright © 2016 Microsoft Corporation

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

Element	Description
ImportPackage	The input data for the **ImportPackage** WSDL operation.
ImportPackageResponse	The result data for the **ImportPackage** WSDL operation.

3.1.4.89.2.1 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>
```

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**.

Copyright © 2016 Microsoft Corporation

- 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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/ImportPackageWithProgress"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExcep
tionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStat
eFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptio
nStateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to create or modify the specified Model.
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: ▪ The "Model" value is specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.1.3.34. ▪ The "Model" value is not specified for the **packageContents** element and the specified XML does not conform to [MS-BDCMFFS] section 2.2.3.28. ▪ The value of the **updateModel** element is "false", the "Model" value is specified for **packageContents** element and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified Partition. ▪ The value of the **updateModel** element is "true", the "Model" value is specified for **packageContents** element and the **Model**

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	contained by the **MetadataModel** does not exist in the specified **Partition**. ▪ The "Model" value is not specified for the **packageContents** element and at least one the **MetadataObjects** contained by the **MetadataModel** does not exist in the metadata store. ▪ The "Model" value is specified for the **packageContents** element and one of the **LobSystems** contained by the **MetadataModel** has the same name as an **LobSystem** in the metadata store, but the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store. ▪ The "Model" value is specified for the **packageContents** element and one of the **Entities** contained by the **MetadataModel** has the same name, namespace and version as an **Entity** in the metadata store, but the names of the **LobSystems** that contain these **Entities** are not identical. ▪ The "InlineProxies" value is specified for the **packageContents** element and the specified **MetadataModel** contains **LobSystem** with an associated Business Logic Module. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one FilterDescriptor of type TimeStampFilter. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other TypeDescriptors. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a StreamAccessor and the TypeDescriptor containing the ReturnTypeDescriptor of this MethodInstance contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains **MethodInstance**, and the Method for which this **MethodInstance** is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values:

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator ▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values: ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator

3.1.4.90.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage	The request WSDL message for the **ImportPackageWithProgress** WSDL operation.
BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage	The response WSDL message for the **ImportPackageWithProgress** WSDL operation.

Copyright © 2016 Microsoft Corporation

3.1.4.90.1.1 BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage

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
ImportPackageWithProgress	The input data for the **ImportPackageWithProgress** WSDL operation.
ImportPackageWithProgressResponse	The result data for the **ImportPackageWithProgress** WSDL operation.

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:

Copyright © 2016 Microsoft Corporation

- 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>
```


Copyright © 2016 Microsoft Corporation

```
      <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/BusinessDataCatalogShar
edService/IsMethodInstantiated"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault
 FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFaul
t_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
BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage	The request WSDL message for the **IsMethodInstantiated** WSDL operation.
BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage	The response WSDL message for the **IsMethodInstantiated** WSDL operation.

3.1.4.91.1.1 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/IsM
ethodInstantiated
```


Copyright © 2016 Microsoft Corporation

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
IsMethodInstantiated	The input data for the **IsMethodInstantiated** WSDL operation.
IsMethodInstantiatedResponse	The result data for the **IsMethodInstantiated** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentN
ullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentO
utOfRangeExceptionFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_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/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOp
erationExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataE
xceptionStateFault 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
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified **Parameter** is 0.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Parameter** 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
BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage	The request WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.
BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage	The response WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

3.1.4.92.1.1 BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage

Copyright © 2016 Microsoft Corporation

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

The SOAP action value is:

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

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
IsParameterReferencedByMethodInstance	The input data for the **IsParameterReferencedByMethodInstance** WSDL operation.
IsParameterReferencedByMethodInstanceResponse	The result data for the **IsParameterReferencedByMethodInstance** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

```
<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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptio
nFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: ▪ The **rawValues** element specifies an LobSystem and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog** specified by the **parentStruct** element. ▪ The **rawValues** element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element. ▪ The **rawValues** element specifies an Identifier and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element. ▪ The **rawValues** element specifies an Action and

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. ▪ The **rawValues** element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element. ▪ The **rawValues** element specifies a Method and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. ▪ The **rawValues** element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. ▪ The **rawValues** element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element. ▪ The **rawValues** element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. ▪ The **rawValues** element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. ▪ The **rawValues** element specifies an **Association** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** containing the **Method** specified by the **parentStruct** element.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The **rawValues** element specifies a **MetadataObject** with invalid attributes. ▪ The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnTypeDescriptor** that is not contained by any **Parameters** that are contained by the **Method** specified by the **parentStruct** element. ▪ The **rawValues** element specifies a

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	MethodInstance that specifies a **ReturnTypeDescriptor** that is contained by a **Parameter** with direction "In". ▪ The **rawValues** element specifies a **MethodInstance** that does not specify a **ReturnTypeDescriptor** and the type of the specified **MethodInstance** is one of the following values: ▪ AccessChecker ▪ AssociationNavigator ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Finder ▪ IdEnumerator ▪ Scalar ▪ SpecificFinder ▪ StreamAccessor ▪ The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with **isCollection** element value set to "false" in the **typeDescriptorFlags** element, and the type of the specified **MethodInstance** is one of the following values: ▪ Finder ▪ IdEnumerator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ BulkSpecificFinder ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with **isCollection** element value set to "true" in the **typeDescriptorFlags** element and the type of the specified **MethodInstance** is one of the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	following values: ▪ SpecificFinder ▪ Scalar ▪ AccessChecker ▪ Creator ▪ StreamAccessor ▪ The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** that contains other **TypeDescriptors**, and the type of the specified **MethodInstance** is "StreamAccessor". ▪ The **rawValues** element specifes a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** of the **MethodInstance** also contains other **TypeDescriptors**, and the LobSystem that contains the DataClass that contains the **Method** that contains the **MethodInstance** does not allow this configuration, and the specified **MethodInstance** is a StreamAccessor. ▪ The **rawValues** element specifies a **MethodInstance**, and the **Method** specified by the **parentStruct** element does not contain a TimeStampFilter, and the type of the specified **MethodInstance** is one of the following values: ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ The **rawValues** element specifies a **MethodInstance** that requires an input but the **Method** specified by **parentStruct** does not contain any **Parameters** with direction "In" or "InOut". ▪ The **rawValues** element specifies a FilterDescriptor of type TimeStampFilter, but the **Method** specified by the **parentStruct** already contains a **TimeStampFilter**. ▪ The **rawValues** element specifies a **Parameter** with direction "Return" but the **Method** specified by **parentStruct** already contains another **Parameter** with direction "Return". ▪ The **rawValues** element specifies an Association and the same **Entity** is specified as a source of the **Association** more than once.
BdcExceptionState (section 2.2.4.25)	The **MetadataObject** specified in **rawValues** element is an **Entity** or a **TypeDescriptor**.
DuplicateMetadataObjectExceptionState (section	One of the following conditions applies:

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
2.2.4.30)	▪ The **rawValues** element specifies an LobSystem and another **LobSystem** with the same name already exists in the metadata store. ▪ The **rawValues** element specifies a **MethodInstance** and the DataClass, which contains the **Method** specified by the **parentStruct** element, already contains another **Method** that contains a **MethodInstance** with the same name as the specified **MethodInstance**. ▪ The **rawValues** element specifies an **Association** and the **DataClass**, which contains the **Method** specified by the **parentStruct** element, already contains another **Method** that contains an **Association** with the same name as the specified **Association**. ▪ On the server, if two threads are calling the same function at the same time, and the **rawValues** element of both threads specifies a MetadataCatalog with the same Partition, then one thread can cause the server to respond with a **DuplicateMetadataObjectExceptionState** exception. ▪ The **MetadataObject** specified by the **parentStruct** element already contains another **MetadataObject** that has same name and type as the **MetadataObject** specified by the **rawValues** element.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	One of the following conditions applies: ▪ The **MetadataObject** specified by the **parentStruct** element already contains the implementation-specific maximum number of **MetadataObjects** that have the same type as the **MetadataObject** specified by the **rawValues** element. ▪ The **rawValues** element specifies a **MethodInstance** that is of type IdEnumerator, AccessChecker, Deleter, ChangedIdEnumerator, DeletedIdEnumerator, or BulkIdEnumerator, but the **DataClass** containing the **Method** specified by the **parentStruct** element already has another **MethodInstance** of the same type.
InvalidOperationException (section 2.2.4.38)	The **MetadataObject** specified by the **parentStruct** is contained by an active **Entity**.<99>
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One of the following conditions applies: ▪ The **MetadataObject** specified by the **parentStruct** element does not exist in the metadata store. ▪ The **rawValues** element specifies a

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	MetadataObject other than **Association** that references another **MetadataObject** that does not exist in the metadata store.

If the **rawValues** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to creating the **MetadataObject** in the metadata store.

MetadataObject	Action
Identifier	Set the "OrdinalNumber" attribute of the created **Identifier** to 1 plus the maximum value of "OrdinalNumber" attributes of all the **Identifiers** contained by the **Entity** specified by the **parentStruct** element.
Parameter	Set the "OrdinalNumber" attribute of the created **Parameter** to 1 plus the maximum value of "OrdinalNumber" attributes of all the **Parameters** contained by the **Method** specified by the **parentStruct** element.
MethodInstance	Set the **IsDefault** attributes of all other **MethodInstances** of type equal to the type of the created **MethodInstance** within the **DataClass** that contains the **Method** specified by the **parentStruct** element to **false**, if the **IsDefault** attribute is **true** on the created **MethodInstance**. If the **IsDefault** attribute is **false** on the created **MethodInstance**, and the **DataClass** that contains the **Method** specified by the **parentStruct** element does not contain any other **MethodInstance** that has the type equal to the type of the created **MethodInstance**, the protocol server MUST set the **IsDefault** attribute of the created **MethodInstance** to **true**. Copy the ACEs from the **Entity** that contains the **Method** specified by the **parentStruct** to the created **MethodInstance**.
LobSystem	Copy the ACEs from the **MetadataCatalog** specified by the **parentStruct** to the created **LobSystem**.
Model	Copy the ACEs from the **MetadataCatalog** specified by the **parentStruct** to the created **Model**.
Method	Copy the ACEs from the **Entity** specified by the **parentStruct** to the created **Method**.

3.1.4.93.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage	The request WSDL message for the

Copyright © 2016 Microsoft Corporation

Message	Description
	MetadataObjectCreate WSDL operation.
BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage	The response WSDL message for the **MetadataObjectCreate** WSDL operation.

3.1.4.93.1.1 BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage

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

The SOAP action value is:

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

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

3.1.4.93.1.2 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
MetadataObjectCreate	The input data for the **MetadataObjectCreate** WSDL operation.
MetadataObjectCreateResponse	The result data for the **MetadataObjectCreate** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
</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>
```

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.

Copyright © 2016 Microsoft Corporation

- 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/BusinessDataCatalogShar
edService/MetadataObjectMergeXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService MetadataObjectMergeXml OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_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/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFa
ult FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionSt
ateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage** response message, unless any 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
BdcExceptionState (section 2.2.4.25)	One of the following conditions applies: ▪ The **mergedStruct** element specifies a TypeDescriptor. ▪ The "Properties" value is specified in the **packageContents** element, the specified **MetadataModel** contains Properties for a **MetadataObject**, and the security principal (2) in whose context the protocol client is operating is not authorized to modify that **MetadataObject**. ▪ The "LocalizedNames" value is specified in the **packageContents** element, the specified **MetadataModel** contains localized names for a **MetadataObject**, and the security principal (2) in whose context the protocol client is operating is not authorized to modify that **MetadataObject**. ▪ The "Permissions" value is specified in the **packageContents** element, the specified **MetadataModel** contains ACEs for a **MetadataObject**, and the security principal (2) in whose context the protocol client is operating is not authorized to set permissions for that **MetadataObject**.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of **Properties** and the **packageContents**

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	element has "Properties" set in its value.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: ▪ The specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of localized names and the **packageContents** element has "LocalizedNames" in its value. ▪ The specified **MetadataModel** contains one or more **MetadataObjects** which does not contain any ACE that specifies "SetPermissions" permission, and the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following: ▪ **Association** ▪ **MetadataCatalog** ▪ **Model** ▪ **LobSystem** ▪ **Entity** ▪ **Method** ▪ **MethodInstance**
MetadataObjectNotfoundExceptionState (section 2.2.4.43)	One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store. <101>
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: ▪ The specified **MetadataModel** does not conform to [MS-BDCMFFS] section 2.2. <102> ▪ One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store. ▪ The "Model" value is specified in the **packageContents** element.

3.1.4.94.1 Messages

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

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage	The request WSDL message for the **MetadataObjectMergeXml** WSDL operation.
BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage	The response WSDL message for the **MetadataObjectMergeXml** WSDL operation.

3.1.4.94.1.1 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
MetadataObjectMergeXml	The input data for the **MetadataObjectMergeXml** WSDL operation.
MetadataObjectMergeXmlResponse	The result data for the **MetadataObjectMergeXml** WSDL operation.

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="packgeContents" type="q5:PackageContents"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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.

packgeContents: 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
Action	**ActionStruct** (section 2.2.4.5)
ActionParameter	**ActionParameterStruct** (section 2.2.4.4)

Copyright © 2016 Microsoft Corporation

Root element name	Complex type
Association	**AssociationStruct** (section 2.2.4.23)
AssociationGroup	**AssociationGroupStruct** (section 2.2.4.21)
Entity	**EntityStruct** (section 2.2.4.31)
FilterDescriptor	**FilterDescriptorStruct** (section 2.2.4.34)
Identifier	**IdentifierStruct** (section 2.2.4.35)
LobSystem	**LobSystemStruct** (section 2.2.4.40)
LobSystemInstance	**LobSystemInstanceStruct** (section 2.2.4.39)
Method	**MethodStruct** (section 2.2.4.47)
MethodInstance	**MethodInstanceStruct** (section 2.2.4.45)
Model	**ModelStruct** (section 2.2.4.47)
Parameter	**ParameterStruct** (section 2.2.4.49)

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/MetadataObjectReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_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/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_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/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_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/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_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/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_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/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFau
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/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionSta
teFault_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
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: ▪ The **xml** element specifies an LobSystem and the security principal (2) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	parentStruct element. ▪ The **xml** element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element. ▪ The **xml** element specifies an **Entity** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element. ▪ The **xml** element specifies an **Identifier** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. ▪ The **xml** element specifies an **Action** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. ▪ The **xml** element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element. ▪ The **xml** element specifies a **Method** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element. ▪ The **xml** element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	Entity specified by the **parentStruct** element. ▪ The **xml** element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. ▪ The **xml** element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. ▪ The **xml** element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element. ▪ The **xml** element specifies an **Association** and the security principal (2) in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ "Model" value is not specified in the **packageContents** element. ▪ The "InlineProxies" value is specified for the **packageContents** element and the specified MetadataModel contains an **LobSystem** with an associated Business Logic Module. ▪ The specified **MetadataModel** contains a **Method** that contains more than one FilterDescriptor of type TimeStampFilter. ▪ The specified **MetadataModel** contains a

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	Method that contains more than one **Parameter** with the **Direction** attribute set to "Return". ▪ The specified **MetadataModel** contains an **Association** which references the same **Entity** more than once as a source of the **Association**. ▪ The specified **MetadataModel** contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other TypeDescriptors. ▪ The specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". ▪ The specified **MetadataModel** contains **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values: ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator ▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values: ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator
BdcExceptionState (section 2.2.4.25)	One of the following conditions applies: ▪ The specified **MetadataModel** represents a **Model** or a **TypeDescriptor**. ▪ The specified **MetadataModel** does not conform to the format specified in [MS-BDCMFFS]. ▪ One or more of the **TypeDescriptors** are specified in the **MetadataModel** have DefaultValues, but the **Method** that contains the Parameter that contains these **TypeDescriptors**, do not contain the **MethodInstance** specified by these **DefaultValues**.
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The specified **MetadataModel** represents an **LobSystem**, and another **LobSystem** with the same name and different type already exists in the metadata store.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified **MetadataModel** contains a **MetadataObject** that

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names,<103> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of **Methods** allowed per **Entity**.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: ▪ The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE which specify **anonymous user** to have permissions other than "Execute", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following: ▪ **Association** ▪ **Entity** ▪ **LobSystem** ▪ **Method** ▪ **MethodInstance** ▪ The specified **MetadataModel** contains one or more **MetadataObject** elements that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following: ▪ **Association** ▪ **Entity** ▪ **LobSystem**

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ **Method** ▪ **MethodInstance**
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The creation of the **MetadataObjects** in the specified **MetadataModel** cannot be because **MetadataObjects** are missing in the metadata store.
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: ▪ One or more **Entities** in the specified **MetadataModel** already exist on a different **LobSystem**. ▪ The protocol server cannot find the Parameter that contains the ReturnTypeDescriptor associated with one of the **MethodInstances** contained by the specified **MetadataModel**.

3.1.4.95.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage	The request WSDL message for the **MetadataObjectReadXml** WSDL operation.
BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage	The response WSDL message for the **MetadataObjectReadXml** WSDL operation.

3.1.4.95.1.1 BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
MetadataObjectReadXml	The input data for the **MetadataObjectReadXml** WSDL operation.
MetadataObjectReadXmlResponse	The result data for the **MetadataObjectReadXml** 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**.

Copyright © 2016 Microsoft Corporation

- 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
Action	**ActionStruct** (section 2.2.4.5)
ActionParameter	**ActionParameterStruct** (section 2.2.4.4)
Association	**AssociationStruct** (section 2.2.4.23)
AssociationGroup	**AssociationGroupStruct** (section 2.2.4.21)
Entity	**EntityStruct** (section 2.2.4.31)
FilterDescriptor	**FilterDescriptorStruct** (section 2.2.4.34)
Identifier	**IdentifierStruct** (section 2.2.4.35)
LobSystem	**LobSystemStruct** (section 2.2.4.40)
LobSystemInstance	**LobSystemInstanceStruct** (section 2.2.4.39)
Method	**MethodStruct** (section 2.2.4.46)
MethodInstance	**MethodInstanceStruct** (section 2.2.4.45)
Parameter	**ParameterStruct** (section 2.2.4.49)

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.

3.1.4.95.2.2 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>
```


Copyright © 2016 Microsoft Corporation

```
  </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 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 **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/BusinessDataCatalogShar
edService/MetadataObjectWriteXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	One of the following conditions applies: ▪ The security principal (2) in whose context the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	protocol client is operating is not authorized to modify the specified **MetadataObject** and the **MetadataObject** is an **LobSystem** or an **LobSystemInstance**. ▪ The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject** and the "Permissions" flag is set in **packageContents** element.
ArgumentException (section 2.2.4.7)	The "InlineProxies" value requires the "Model" value to be also specified for the **packageContents** element.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One or more **MetadataObjects** required for the operation does not exist. <104>

3.1.4.96.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage	The request WSDL message for the **MetadataObjectWriteXml** WSDL operation.
BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage	The response WSDL message for the **MetadataObjectWriteXml** WSDL operation.

Copyright © 2016 Microsoft Corporation

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
MetadataObjectWriteXml	The input data for the **MetadataObjectWriteXml** WSDL operation.
MetadataObjectWriteXmlResponse	The result data for the **MetadataObjectWriteXml** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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
ActionParameterStruct (section 2.2.4.4)	If the **packageContents** element is set to "Model", the ActionParameter element as specified in [MS-BDCMFFS] section 2.1.3.4. Otherwise, the **ActionParameter** element as specified in [MS-BDCMFFS] section 2.2.3.4.
ActionStruct (section 2.2.4.5)	If the **packageContents** element is set to "Model", the Action element as specified in [MS-BDCMFFS] section 2.1.3.3. Otherwise, the **Action** element as specified in [MS-BDCMFFS] section 2.2.3.3.

Copyright © 2016 Microsoft Corporation

Complex type	Root element
AssociationGroupStruct (section 2.2.4.21)	If the **packageContents** element is set to "Model", the AssociationGroup element as specified in [MS-BDCMFFS] section 2.1.3.8. Otherwise, the **AssociationGroup** element as specified in [MS-BDCMFFS] section 2.2.3.8.
AssociationStruct (section 2.2.4.23)	If the **packageContents** element is set to "Model", the Association element as specified in [MS-BDCMFFS] section 2.1.3.7. Otherwise, the **Association** element as specified in [MS-BDCMFFS] section 2.2.3.7.
EntityStruct (section 2.2.4.31)	If the **packageContents** element is set to "Model", the Entity element as specified in [MS-BDCMFFS] section 2.1.3.16. Otherwise, the **Entity** element as specified in [MS-BDCMFFS] section 2.2.3.11.
FilterDescriptorStruct (section 2.2.4.34)	If the **packageContents** element is set to "Model", the FilterDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.17. Otherwise, the **FilterDescriptor** element as specified in [MS-BDCMFFS] section 2.2.3.12.
IdentifierStruct (section 2.2.4.35)	If the **packageContents** element is set to "Model", the Identifier element as specified in [MS-BDCMFFS] section 2.1.3.19. Otherwise, the **Identifier** element as specified in [MS-BDCMFFS] section 2.2.3.14.
LobSystemStruct (section 2.2.4.40)	If the "Model" value of **packageContents** is specified, the LobSystem element as specified in [MS-BDCMFFS] section 2.1.3.23. Otherwise, the **LobSystem** element as specified in [MS-BDCMFFS] section 2.2.3.17.
LobSystemInstanceStruct (section 2.2.4.39)	If the "Model" value of **packageContents** is specified, the LobSystemInstance element as specified in [MS-BDCMFFS] section 2.1.3.24. Otherwise, the **LobSystemInstance** element as specified in [MS-BDCMFFS] section 2.2.3.18.
MethodStruct (section 2.2.4.46)	If the "Model" value of **packageContents** is specified, the Method element as specified in [MS-BDCMFFS] section 2.1.3.30. Otherwise, the **Method** element as specified in [MS-BDCMFFS] section 2.2.3.24.
MethodInstanceStruct (section 2.2.4.45)	If the "Model" value of **packageContents** is specified, the MethodInstance element as specified in [MS-BDCMFFS] section 2.1.3.31. Otherwise, the MethodInstance element as specified in [MS-BDCMFFS] section 2.2.3.25.
ModelStruct (section 2.2.4.47)	If the "Model" value of **packageContents** is specified, the Model element as specified in [MS-BDCMFFS] section 2.1.3.34. Otherwise, the **Model** element as specified in [MS-BDCMFFS] section 2.2.3.28.
ParameterStruct (section 2.2.4.49)	If the "Model" value of **packageContents** is specified, the Parameter element as specified in [MS-BDCMFFS] section 2.1.3.37. Otherwise, the **Parameter** element as specified in [MS-BDCMFFS] section 2.2.3.29.
TypeDescriptorStruct (section 2.2.4.53)	If the "Model" value of **packageContents** is specified, the TypeDescriptor element as specified in [MS-BDCMFFS] section 2.1.3.43. Otherwise, the **TypeDescriptor** element as specified in [MS-

Copyright © 2016 Microsoft Corporation

Complex type	Root element
	BDCMFFS] section 2.2.3.34. <105>

3.1.4.96.3 Complex Types

None.

3.1.4.96.4 Simple Types

None.

3.1.4.96.5 Attributes

None.

3.1.4.96.6 Groups

None.

3.1.4.96.7 Attribute Groups

None.

3.1.4.97 ModelReadXml

This operation is used to create MetadataObjects contained by the specified MetadataModel along with their Properties, localized names, and ACEs in the metadata store. The **MetadataModel** 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 **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** and **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.

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

```
<wsdl:operation name="ModelReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXml"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_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/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_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/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_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/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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The "Model" value is not specified in the **packageContents** element. ▪ The specified **MetadataModel** contains one or more **MetadataObjects** with invalid attributes. <106> ▪ The "InlineProxies" value is specified for the **packageContents** element and the specified **MetadataModel** contains **LobSystem** with an associated Business

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	Logic Module. ▪ The specified **MetadataModel** contains a Method that contains more than one TimeStampFilter. ▪ The specified **MetadataModel** contains a **Method** that contains more than one Parameter with direction "Return". ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a StreamAccessor that specifies ReturnTypeDescriptor that contains other TypeDescriptors. ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this MethodInstance contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database". ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this **MethodInstance**, is one of the following values: ▪ AccessChecker ▪ AssociationNavigator ▪ Associator ▪ BinarySecurityDescriptorAccessor ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ BulkSpecificFinder ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Deleter ▪ Disassociator

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ SpecificFinder ▪ Updater ▪ StreamAccessor ▪ The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** is not contain a TimeStampFilter and the type of this **MethodInstance** is one of the following values: ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ The specified **MetadataModel** contains an Association which specifies an Entity as a source more than once.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId of the specified MetadataCatalog is 0.
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	One of the following conditions applies: ▪ The value of the **updateModel** element is FALSE, and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** contained by the specified **MetadataCatalog**. ▪ The specified **MetadataModel** represents an **LobSystem**, but an **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names<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 **Entity** contains more **Methods** than the implementation-specific maximum number of **Methods** allowed per **Entity**.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: ▪ The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE which specify anonymous user to have permissions other than "Execute", the **packageContents**

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	element has "Permissions" in its value, and the specified **MetadataObject** is one of the following: ▪ **Association** ▪ **Entity** ▪ **LobSystem** ▪ **Method** ▪ **MethodInstance** ▪ The specified **MetadataModel** contains one or more **MetadataObject** elements that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following: ▪ **Association** ▪ **Entity** ▪ **LobSystem** ▪ **Method** ▪ **MethodInstance**
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The value of the **updateModel** element is **true** and the specified **MetadataCatalog** does not contain the **Model** contained by the **MetadataModel**.
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: ▪ The specified XML does not conform to the format specified in [MS-BDCMFFS].<108> ▪ One of the **Entities** contained by the **MetadataModel** has the same name, namespace and version as an **Entity** in the metadata store, but the names of the **LobSystems** that contain these **Entities** are not identical.

3.1.4.97.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_ModelReadXml_InputMessage	The request WSDL message for the

Copyright © 2016 Microsoft Corporation

Message	Description
	ModelReadXml WSDL operation.
BusinessDataCatalogSharedService_ModelReadXml_OutputMessage	The response WSDL message for the **ModelReadXml** 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:

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

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
ModelReadXml	The input data for the **ModelReadXml** WSDL operation.
ModelReadXmlResponse	The result data for the **ModelReadXml** WSDL operation.

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].

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_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/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_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/ReadSlicedXmlPackageFormatExceptionStateFault"
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
BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage	The request WSDL message for the **ReadSlicedXml** WSDL operation.
BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage	The response WSDL message for the **ReadSlicedXml** WSDL operation.

3.1.4.98.1.1 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/Rea
dSlicedXml
```

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.

Copyright © 2016 Microsoft Corporation

Element	Description
ReadSlicedXml	The input data for the **ReadSlicedXml** WSDL operation.
ReadSlicedXmlResponse	The result data for the **ReadSlicedXml** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_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/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel 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/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel 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/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel BdcExceptionStateFault Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveEntityFromModel InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFau
lt FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to remove the reference from the specified Model to the specified Entity.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Entity** is not referenced by the specified **Model**.

3.1.4.99.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage	The request WSDL message for the **RemoveEntityFromModel** WSDL operation.
BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage	The response WSDL message for the **RemoveEntityFromModel** WSDL operation.

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/Rem
oveEntityFromModel
```


Copyright © 2016 Microsoft Corporation

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
RemoveEntityFromModel	The input data for the **RemoveEntityFromModel** WSDL operation.
RemoveEntityFromModelResponse	The result data for the **RemoveEntityFromModel** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_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/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/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName ArgumentOutOfRangeException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveLocalizedName InvalidOperationExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
</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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.
InvalidOperationException (section 2.2.4.38)	The localized name for the specified LCID does not exist in the specified **Setting** for the specified **MetadataObject**.

3.1.4.100.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage	The request WSDL message for the **RemoveLocalizedName** WSDL operation.
BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage	The response WSDL message for the **RemoveLocalizedName** WSDL operation.

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
```


Copyright © 2016 Microsoft Corporation

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
RemoveLocalizedName	The input data for the **RemoveLocalizedName** WSDL operation.
RemoveLocalizedNameResponse	The result data for the **RemoveLocalizedName** WSDL operation.

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_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/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService RemoveProperty 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/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/BusinessDataCatalogShar
edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService RemoveProperty 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/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_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/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService RemoveProperty MetadataExceptionStateFault Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
</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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
ArgumentException (section 2.2.4.7)	The **name** element is empty or NULL.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
BusinessDataCatalogSharedService_RemoveProperty_InputMessage	The request WSDL message for the **RemoveProperty** WSDL operation.
BusinessDataCatalogSharedService_RemoveProperty_OutputMessage	The response WSDL message for the **RemoveProperty** WSDL operation.

3.1.4.101.1.1 BusinessDataCatalogSharedService_RemoveProperty_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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
RemoveProperty	The input data for the **RemoveProperty** WSDL operation.
RemovePropertyResponse	The result data for the **RemoveProperty** WSDL operation.

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/SaveLocalizedName"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService SaveLocalizedName ArgumentExceptionFault FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService SaveLocalizedName ArgumentOutOfRangeExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_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/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
InvalidOperationException (section 2.2.4.38)	The specified **MetadataObject** already contains the implementation-specific maximum number of localized names.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage	The request WSDL message for the **SaveLocalizedName** WSDL operation.
BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage	The response WSDL message for the **SaveLocalizedName** WSDL operation.

3.1.4.102.1.1 BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage

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

The SOAP action value is:

Copyright © 2016 Microsoft Corporation

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

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

3.1.4.102.1.2BusinessDataCatalogSharedService_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
SaveLocalizedName	The input data for the **SaveLocalizedName** WSDL operation.
SaveLocalizedNameResponse	The result data for the **SaveLocalizedName** WSDL operation.

3.1.4.102.2.1SaveLocalizedName

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.

3.1.4.102.2.2SaveLocalizedNameResponse

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>
```


Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService SaveProperty 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/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService SaveProperty 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/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService SaveProperty 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/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_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/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_SaveProperty_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/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultM
essage" 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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified **MetadataObject** already contains the implementation-specific maximum number of Properties.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** does not exist.

3.1.4.103.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_SaveProperty_InputMessage	The request WSDL message for the **SaveProperty** WSDL operation.
BusinessDataCatalogSharedService_SaveProperty_OutputMessage	The response WSDL message for the **SaveProperty** WSDL operation.

3.1.4.103.1.1 BusinessDataCatalogSharedService_SaveProperty_InputMessage

Copyright © 2016 Microsoft Corporation

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

The SOAP action value is:

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

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

3.1.4.103.1.2BusinessDataCatalogSharedService_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
SaveProperty	The input data for the **SaveProperty** WSDL operation.
SavePropertyResponse	The result data for the **SaveProperty** WSDL operation.

3.1.4.103.2.1SaveProperty

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.

3.1.4.103.2.2SavePropertyResponse

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>
```


Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService SetAccessControlEntries ArgumentExceptionFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetAccessControlEntries BdcExceptionStateFault
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetAccessControlEntries 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/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateF
ault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage** response message, unless any 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
AccessDeniedExceptionState (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 **MetadataObject**.
ArgumentOutOfRangeException (section 2.2.4.9)	The MetadataObjectId for the specified **MetadataObject** is set to zero.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: ▪ At least one of the specified ACEs contains an invalid value for **principalName** element. ▪ The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify anonymous user to have permissions other than "Execute".

Copyright © 2016 Microsoft Corporation

3.1.4.104.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage	The request WSDL message for the **SetAccessControlEntries** WSDL operation.
BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage	The response WSDL message for the **SetAccessControlEntries** WSDL operation.

3.1.4.104.1.1 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
SetAccessControlEntries	The input data for the **SetAccessControlEntries** WSDL operation.
SetAccessControlEntriesResponse	The result data for the **SetAccessControlEntries** WSDL operation.

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>
```


Copyright © 2016 Microsoft Corporation

```
      <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.

3.1.4.104.2.2SetAccessControlEntriesResponse

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/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.

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified **Entity**.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **Entity** does not exist or does not contain an **Action** 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
BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage	The request WSDL message for the **SetDefaultActionForEntity** WSDL operation.
BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage	The response WSDL message for the **SetDefaultActionForEntity** WSDL operation.

3.1.4.105.1.1 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

Copyright © 2016 Microsoft Corporation

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

Element	Description
SetDefaultActionForEntity	The input data for the **SetDefaultActionForEntity** WSDL operation.
SetDefaultActionForEntityResponse	The result data for the **SetDefaultActionForEntity** WSDL operation.

3.1.4.105.2.1SetDefaultActionForEntity

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.

3.1.4.105.2.2SetDefaultActionForEntityResponse

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.

3.1.4.105.6 Groups

Copyright © 2016 Microsoft Corporation

None.

3.1.4.105.7 Attribute Groups

None.

3.1.4.106 SetDefaultValuesForTypeDescriptor

This operation is used to set the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the **typeDescriptorId** element of the specified DefaultValueStruct (section 2.2.4.29) complex type for the MethodInstance with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct** (section 2.2.4.29).

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

```
<wsdl:operation name="SetDefaultValuesForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor OutputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor 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/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor 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/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter containing the specified TypeDescriptor.
ArgumentException (section 2.2.4.7)	The specified DefaultValue is invalid.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified **TypeDescriptor** already contains the implementation-specific maximum number of **DefaultValues**.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **TypeDescriptor** does not exist.

3.1.4.106.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage	The request WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.
BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage	The response WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

3.1.4.106.1.1 BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage

Copyright © 2016 Microsoft Corporation

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

The SOAP action value is:

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

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
SetDefaultValuesForTypeDescriptor	The input data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.
SetDefaultValuesForTypeDescriptorResponse	The result data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

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">
```


Copyright © 2016 Microsoft Corporation

```
  <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/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentException
Fault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```


Copyright © 2016 Microsoft Corporation

```
  <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
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage	The request WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage	The response WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

3.1.4.107.1.1 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

Copyright © 2016 Microsoft Corporation

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

Element	Description
SetLobSystemDataByLobSystemId	The input data for the **SetLobSystemDataByLobSystemId** WSDL operation.
SetLobSystemDataByLobSystemIdResponse	The result data for the **SetLobSystemDataByLobSystemId** WSDL operation.

3.1.4.107.2.1SetLobSystemDataByLobSystemId

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.

3.1.4.107.2.2SetLobSystemDataByLobSystemIdResponse

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

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptio
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/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorCreate BdcExceptionStateFault Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorCreate MetadataExceptionStateFaul
t_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

Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter specified by **parameterStruct** element.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The TypeDescriptor specified by **rawValues** element and the **TypeDescriptor** specified by **parentTypeDescriptorStruct** element are contained by different **Parameters**. ▪ The data type referenced by the **typeName** element of the specified **TypeDescriptor** is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type. ▪ The **TypeDescriptor** specified by **parentTypeDescriptorStruct** element is NULL and the **Parameter** has another root TypeDescriptor. ▪ The **TypeDescriptor** and the parent **TypeDescriptor** specified by **parentTypeDescriptorStruct** element have the **IsCollection** flag set. ▪ The **TypeDescriptor** is associated with a FilterDescriptor and the **FilterDescriptor** is not contained by the Method that contains the **Parameter** specified by **parameterStruct** element. ▪ The **TypeDescriptor** specified by **parentTypeDescriptorStruct** element has "IsCollection" flag set and already contains another **TypeDescriptor**. ▪ The **TypeDescriptor** is has "read-only" flag set, and the Direction attribute of the **Parameter** is set to "In".
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The **TypeDescriptor** specified by the **parentStruct** element already contains another **TypeDescriptor** that has the same name.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	One of the following conditions applies: ▪ The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains an implementation-specific

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	maximum number of **TypeDescriptors**. ▪ The metadata store already contains an implementation-specific maximum number of **TypeDescriptors** associated with the **FilterDescriptor** referenced by the specified **TypeDescriptor**.
InvalidOperationException (section 2.2.4.38)	The **Parameter** specified by the **parameterStruct** element is contained by an active Entity.<109>

3.1.4.108.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage	The request WSDL message for the **TypeDescriptorCreate** WSDL operation.
BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage	The response WSDL message for the **TypeDescriptorCreate** WSDL operation.

3.1.4.108.1.1 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.

Copyright © 2016 Microsoft Corporation

Element	Description
TypeDescriptorCreate	The input data for the **TypeDescriptorCreate** WSDL operation.
TypeDescriptorCreateResponse	The result data for the **TypeDescriptorCreate** WSDL operation.

3.1.4.108.2.1TypeDescriptorCreate

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.

3.1.4.108.2.2TypeDescriptorCreateResponse

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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_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/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_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/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_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/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml 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/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorMergeXml 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/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to edit the Method containing the specified Parameter.
ArgumentException (section 2.2.4.7)	The "Model" value is specified in the **packageContents** element.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	The specified **MetadataModel** contains one or more **TypeDescriptors** that already contain the implementation-specific maximum number of **Properties** and the **packageContents** element has "Properties" set in its value.
InvalidOperationException (section 2.2.4.38)	The specified **MetadataModel** specifies one or more **TypeDescriptors** that already contain the implementation-specific maximum number of localized names and the **packageContents** element has "LocalizedNames" in its value.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	One of the following conditions applies: ▪ The specified **Parameter** or the specified **TypeDescriptor** could not be found. ▪ The specified **TypeDescriptor** could not be found.
PackageFormatExceptionState (section 2.2.4.48)	The **TypeDescriptor** specified in the **MetadataModel** does not exist in the specified **TypeDescriptor** or the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	specified **Parameter** if a **TypeDescriptor** 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
BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage	The request WSDL message for the **TypeDescriptorMergeXml** WSDL operation.
BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage	The response WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

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
TypeDescriptorMergeXml	The input data for the **TypeDescriptorMergeXml** WSDL operation.
TypeDescriptorMergeXmlResponse	The result data for the **TypeDescriptorMergeXml** WSDL operation.

Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

3.1.4.109.2.2TypeDescriptorMergeXmlResponse

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/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns:BusinessDataCatalogSharedService TypeDescriptorReadXml InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/TypeDescriptorReadXmlResponse"
message="tns:BusinessDataCatalogSharedService TypeDescriptorReadXml OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_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/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_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/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_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/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_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/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_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/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFau
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/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSta
teFault_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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the Method containing the

Copyright © 2016 Microsoft Corporation

Error Complex Type	Condition
	specified Parameter.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The "Model" value is not specified in the **packageContents** element. ▪ The data type referenced by a **TypeDescriptor** contained by the **MetadataModel** is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type. ▪ The **MetadataModel** contains a **TypeDescriptor** that has "IsCollection" flag set and contains another **TypeDescriptor** that has "IsCollection" flag set. ▪ The specified **TypeDescriptor** has "IsCollection" flag set and the **TypeDescriptor** which correspond to the specified **MetadataModel** also has "IsCollection" flag set. ▪ The specified **TypeDescriptor** has "IsCollection" flag set and already contains a

Copyright © 2016 Microsoft Corporation

Error Complex Type	Condition
	TypeDescriptor. ▪ The specified **TypeDescriptor** is NULL and the specified **Parameter** already has a root **TypeDescriptor**. ▪ The specified **TypeDescriptor** is not contained by the specified **Parameter**. ▪ The specified **MetadataModel** contains a **TypeDescriptor** that has "ReadOnly" flag set and the specified **Parameter** has direction "In".
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The specified **TypeDescriptor** already contains another **TypeDescriptor** with the same name as the **TypeDescriptor** which corresponds to the **MetadataModel**.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	One of the following conditions applies: ▪ The specified **MetadataModel** contains a **TypeDescriptor** that contains more **TypeDescriptors** than the implementation-specific maximum number of **TypeDescriptors**. ▪ The specified

Copyright © 2016 Microsoft Corporation

Error Complex Type	Condition
	TypeDescriptor contains implementation-specific maximum number of **TypeDescriptors**.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: ▪ The Entity containing the **Method** that contains the specified **Parameter** is active. <110> ▪ The specified **Parameter** does not exist.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **TypeDescriptor** does not exist.
PackageFormatExceptionState (section 2.2.4.48)	One of the following conditions applies: ▪ The specified XML does not conform to the format specified in [MS-BDCMFFS]. ▪ The **Method** containing the specified **Parameter** does not contain the FilterDescriptor referenced by the specified **MetadataModel**.

3.1.4.110.1 Messages

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

Copyright © 2016 Microsoft Corporation

Message	Description
BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage	The request WSDL message for the **TypeDescriptorReadXml** WSDL operation.
BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage	The response WSDL message for the **TypeDescriptorReadXml** WSDL operation.

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
TypeDescriptorReadXml	The input data for the **TypeDescriptorReadXml** WSDL operation.
TypeDescriptorReadXmlResponse	The result data for the **TypeDescriptorReadXml** WSDL operation.

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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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.

Copyright © 2016 Microsoft Corporation

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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_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/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

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
AccessDeniedExceptionState (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**.
ArgumentException (section 2.2.4.7)	One of the following conditions applies: ▪ The specified **MetadataObject** name is NULL or empty. ▪ The length of the specified **MetadataObject** name exceeds 255 characters.
ConcurrentModificationExceptionState (section 2.2.4.27)	The specified **MetadataObject** has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be triggered when one context reads the given **MetadataObject**, after which another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**.
DuplicateMetadataObjectExceptionState (section 2.2.4.30)	The parent **MetadataObject** contains another **MetadataObject** with the same **MetadataObject** name.
ExceededMetadataObjectLimitExceptionState (section 2.2.4.32)	One of the following conditions applies: ▪ The parent of the specified **MetadataObject** already contains the implementation-specific maximum number of **MetadataObjects** of the same type as the specified **MetadataObject**. ▪ The specified **MetadataObject** is a MethodInstance and one of the following conditions holds true: ▪ The type of the specified **MethodInstance** is IdEnumerator and the DataClass that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **IdEnumerator**.<111> ▪ The type of the specified **MethodInstance** is AccessChecker and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **AccessChecker**.<112> ▪ The type of the specified **MethodInstance** is Deleter and the **DataClass** that contains the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	specified **MethodInstance** already contains another **MethodInstance** that has the type **Deleter**.<113> ▪ The type of the specified **MethodInstance** is ChangedIdEnumerator and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **ChangedIdEnumerator**.<114> ▪ The type of the specified **MethodInstance** is DeletedIdEnumerator and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **DeletedIdEnumerator**.<115> ▪ The type of the specified **MethodInstance** is BulkIdEnumerator and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** that has the type **BulkIdEnumerator**.<116>
InvalidMetadataObjectExceptionState (section 2.2.4.36)	One of the following conditions applies: ▪ The specified **MetadataObject** is a root TypeDescriptor, and it is being updated to be part of a Parameter that already has a root **TypeDescriptor**. ▪ The specified **MetadataObject** is an Association or a **MethodInstance** and the **Parameter** of the specified ReturnTypeDescriptor is not contained by the same Method as the specified **Association** or **MethodInstance**.<117> ▪ The specified **MetadataObject** is an **Association** or a **MethodInstance** and the specified type for the **MethodInstance** requires a **Parameter** with **Direction** "In" or "InOut" to be present on the **Method** containing the specified **Association** or **MethodInstance**.<118> The specified type of **MethodInstance** is one of the following values: ▪ SpecificFinder ▪ AccessChecker ▪ Updater ▪ Deleter ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ AssociationNavigator ▪ Associator ▪ Disassociator

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	▪ StreamAccessor ▪ BinarySecurityDescriptorAccessor ▪ BulkSpecificFinder ▪ BulkAssociatedIdEnumerator ▪ BulkAssociationNavigator ▪ BulkIdEnumerator ▪ The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **Parameter** containing the specified **ReturnTypeDescriptor** has the **Direction** attribute specified as "In".<119> ▪ The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST be present for the specified type for the **MethodInstance**, however it is passed in as NULL or 0.<120> The specified type of **MethodInstance** is one of the following values: ▪ AccessChecker ▪ AssociationNavigator ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Finder ▪ IdEnumerator ▪ Scalar ▪ SpecificFinder ▪ StreamAccessor ▪ The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST have the "IsCollection" flag set for the specified type for the **MethodInstance**. The specified type of **MethodInstance** is one of the following values: ▪ SpecificFinder ▪ Scalar ▪ AccessChecker ▪ Creator ▪ StreamAccessor ▪ The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST have the

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	"IsCollection" flag not set for the specified type for the **MethodInstance**. The specified type of **MethodInstance** is one of the following values: ▪ ChangedIdEnumerator ▪ DeletedIdEnumerator ▪ Finder ▪ IdEnumerator ▪ The specified **MetadataObject** is an **Association** or a **MethodInstance** and the **ReturnTypeDescriptor** MUST NOT contain any **TypeDescriptors** for **MethodInstance** of StreamAccessor type. ▪ The specified **MetadataObject** is a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** MUST NOT contain any other **TypeDescriptors** for **MethodInstance** of StreamAccessor type and the type for the LobSystem containing the Entity containing **MethodInstance** of StreamAccessor type is **DataBase**. ▪ The specified **MetadataObject** is an **Entity** and the specified **CacheUsage**, **MajorVersion**, **MinorVersion**, **BuildVersion**, or **RevisionVersion** is invalid. ▪ The specified **MetadataObject** is a **Parameter** and the specified Direction is invalid. ▪ The specified **MetadataObject** is a **MethodInstance** and the specified type is invalid. ▪ The specified **MetadataObject** is a **TypeDescriptor** and the specified flags are invalid. ▪ The specified **MetadataObject** is a **Parameter** and the **Method** that contains the specified **Parameter** already contains another **Parameter** with **Direction** "Return". ▪ The specified **MetadataObject** is a **TypeDescriptor** and the **Parameter** containing the specified **TypeDescriptor** has value "In" for the **Direction** attribute, but the specified **TypeDescriptor** has the "Read-Only" flag set for its TypeDescriptorFlags attribute. ▪ The specified **MetadataObject** is a **Parameter** and the specified **Parameter** is not allowed to have value "In" for the **Direction** attribute because one of the **TypeDescriptors** contained by the specified **Parameter** has the "Read-Only" flag set for its **TypeDescriptorFlags** attribute. ▪ The specified **MetadataObject** is a **Parameter**

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	and the specified **Parameter** is not allowed to have the value "In" for the Direction attribute because the specified **Parameter** contains a **ReturnTypeDescriptor** of a **MethodInstance**. ▪ The specified **MetadataObject** is a **TypeDescriptor**, which has its **Parameter** is being changed to the specified **Parameter**, and the specified **Parameter** already has a root **TypeDescriptor**.<121> ▪ The specified **MetadataObject** is a **TypeDescriptor** and the "IsCollection" flag cannot be set on a **TypeDescriptor** if its containing **TypeDescriptor** also has "IsCollection" flag set. ▪ The specified **MetadataObject** is a **TypeDescriptor** and a **TypeDescriptor** with the "IsCollection" flag set can only contain one **TypeDescriptor**. ▪ The specified **MetadataObject** is a **TypeDescriptor** and the FilterDescriptor associated with the specified **TypeDescriptor** is not defined on the **Method** that contains the **Parameter** containing the specified **TypeDescriptor**. ▪ The specified **MetadataObject** is a **TypeDescriptor** and the **Parameter** containing the containing **TypeDescriptor** is different from the **Parameter** containing the specified **TypeDescriptor**. ▪ The specified **MetadataObject** is a **TypeDescriptor** and the **Parameter** containing the specified **TypeDescriptor** has a **TypeDescriptor** hierarchy deeper than an implementation-specific maximum allowed depth. ▪ The specified **MetadataObject** is the **FilterDescriptor** and the **Method** associated with the specified **FilterDescriptor** already contains another **FilterDescriptor** of type TimeStampFilter and the specified **FilterDescriptor** is updated to be a **FilterDescriptor** of type **TimeStampFilter**.
InvalidOperationException (section 2.2.4.38)	One of the following conditions applies: ▪ The operation cannot be performed because the specified **MetadataObject** is an **Association** or a **MethodInstance** contained by an active **Entity**.<122> ▪ The operation cannot be performed because the specified **MetadataObject** is an **Entity**, which has its name or namespace being updated, and another **Entity** with the specified name and

Copyright © 2016 Microsoft Corporation

Error complex type	Condition
	namespace is currently being referenced by other **MetadataObjects**. ▪ The operation cannot be performed because the specified **MetadataObject** is the **FilterDescriptor** and the **Method** that contains the specified **FilterDescriptor** also contains a **MethodInstance** of type ChangedIdEnumerator or a DeletedIdEnumerator, and the type of the **FilterDescriptor** is changed from **TimeStampFilter** to another type.
MetadataObjectNotFoundExceptionState (section 2.2.4.43)	The specified **MetadataObject** 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
Parameter	If the **ordinalNumber** attribute of the specified **Parameter** is the same as the **ordinalNumber** attribute of another **Parameter** contained by the **Method** containing the specified **Parameter**, the **ordinalNumber** attribute of **Parameters** contained by that **Method** that have the **ordinalNumber** attribute greater than or equal to the **ordinalNumber** attribute of the specified **Parameter** MUST be incremented. After the operation completes, all **Parameters** contained by the **Method** containing the specified **Parameter** MUST have **ordinalNumber** attributes in the range from zero to *n-1*, where *n* is the number of **Parameters** contained by that **Method**. **Parameters** not contained by the **Method**, which contains the specified **Parameter**, MUST NOT have their **ordinalNumber** attributes altered. <123>
MethodInstance	When the **isDefault** attribute of the specified **MethodInstance** is set to 1, the protocol server MUST set the **isDefault** attribute of all other **MethodInstances** that have the same value for the MethodInstanceType attribute within the containing **DataClass** to 0. When the **isDefault** attribute of the specified **MethodInstance** is set to 0 (and it was previously set to 1), the protocol server MUST set the **IsDefault** attribute of a **MethodInstance** with the same value for MethodInstanceType within the containing **DataClass** to 1<124>. The protocol server MUST decide which **MethodInstance** to alter based on an implementation-specific algorithm.

Copyright © 2016 Microsoft Corporation

3.1.4.111.1 Messages

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

Message	Description
BusinessDataCatalogSharedService_Update_InputMessage	The request WSDL message for the **Update** WSDL operation.
BusinessDataCatalogSharedService_Update_OutputMessage	The response WSDL message for the **Update** 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/Upd
ate
```

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
Update	The input data for the **Update** WSDL operation.
UpdateResponse	The result data for the **Update** 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>
```


Copyright © 2016 Microsoft Corporation

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.

3.1.4.111.2.2UpdateResponse

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
```


Copyright © 2016 Microsoft Corporation

```
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
BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage	The request WSDL message for the **WriteSlicedXml** WSDL operation.
BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage	The response WSDL message for the **WriteSlicedXml** WSDL operation.

3.1.4.112.1.1 BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage

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

Copyright © 2016 Microsoft Corporation

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
WriteSlicedXml	The input data for the **WriteSlicedXml** WSDL operation.
WriteSlicedXmlResponse	The result data for the **WriteSlicedXml** 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.

3.1.4.112.2.2 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>
```


Copyright © 2016 Microsoft Corporation

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.

Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

```
      </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 metadaobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
```


Copyright © 2016 Microsoft Corporation

```
//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 metadatobject 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".

Copyright © 2016 Microsoft Corporation

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 metadaobject 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>
```


Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

```
        <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.

Copyright © 2016 Microsoft Corporation

- 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/">
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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");
```


Copyright © 2016 Microsoft Corporation

```
//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:wcfMarshallableValueTypeName 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>
```


Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

```
      <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">
```


Copyright © 2016 Microsoft Corporation

```
      <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:

Copyright © 2016 Microsoft Corporation

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>
```


Copyright © 2016 Microsoft Corporation

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None

Copyright © 2016 Microsoft Corporation

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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
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"
/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAllLocalizedNames MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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_FaultMe
ssage"/>
      <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 FaultMe
ssage"/>
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
    </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_ArgumentOutOfRangeExceptionFault_F
aultMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
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"
```


Copyright © 2016 Microsoft Corporation

```
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAccessControlEntries MetadataExceptionStateF
ault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetAccessControlEntries">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetAccessControlEntries InvalidOperationExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectCreate">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreate"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fau
ltMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault
_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectCreate ArgumentOutOfRangeExceptio
nFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fau
ltMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionF
ault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="Update">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateResponse"
message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMe
ssage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService Update InvalidOperationExceptionFault FaultMess
age"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/Delete" message="tns:BusinessDataCatalogSharedService_Delete_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse"
message="tns:BusinessDataCatalogSharedService_Delete_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
edService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectMergeXml PackageFormatExceptionSt
ateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectReadXml">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXml"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlResponse"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml InvalidOperationException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFau
lt_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectReadXml PackageFormatExceptionSta
teFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectWriteXml">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService MetadataObjectWriteXml ArgumentNullExceptionFau
lt 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_ArgumentNullExceptionFaul
t 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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetCacheInvalidationRecordsSince">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFault_FaultMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService ExportPackage InvalidOperationExceptionFault Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService ExportPackage MetadataExceptionStateFault Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetModelById"
message="tns:BusinessDataCatalogSharedService GetModelById InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMe
ssage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetModelById BdcExceptionStateFault FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelById InvalidOperationExceptionFault Fau
ltMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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_FaultMess
age"/>
      <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
```


Copyright © 2016 Microsoft Corporation

```
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/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetModelsByEntityId ArgumentExceptionFault Faul
tMessage"/>
      <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
```


Copyright © 2016 Microsoft Corporation

```
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_ArgumentNullExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExcepti
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"
```


Copyright © 2016 Microsoft Corporation

```
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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentExceptionFault_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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"
```


Copyright © 2016 Microsoft Corporation

```
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/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId ArgumentException
Fault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId ArgumentNullExcep
tionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId BdcExceptionState
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId InvalidOperationE
xceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetLobSystemDataByLobSystemId MetadataException
StateFault FaultMessage"/>
    </wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

```
    <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/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFaul
t" 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
```


Copyright © 2016 Microsoft Corporation

```
edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName ArgumentOutOfRangeExceptionF
ault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName BdcExceptionStateFault Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemByName InvalidOperationExceptionFau
lt_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetLobSystemsLikeName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName ArgumentNullExceptionFaul
t FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName BdcExceptionStateFault Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName InvalidOperationException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetLobSystemsLikeName MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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_FaultMessage"/>
      <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
```


Copyright © 2016 Microsoft Corporation

```
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
```


Copyright © 2016 Microsoft Corporation

```
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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
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 ArgumentOutOfRangeExcep
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
```


Copyright © 2016 Microsoft Corporation

```
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetDataClassesForSystem InvalidOperationExcepti
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"
```


Copyright © 2016 Microsoft Corporation

```
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_InvalidOperation
ExceptionFault_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"
```


Copyright © 2016 Microsoft Corporation

```
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 InvalidOperationE
xceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataException
StateFault_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_InputMe
ssage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService GetEntityWithNameAndNamespaceAndVersion OutputM
essage"/>
      <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"
```


Copyright © 2016 Microsoft Corporation

```
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_ArgumentOutOfRangeExceptio
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">
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultActionForEntity ArgumentOutOfRangeExc
eptionFault 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>
```


Copyright © 2016 Microsoft Corporation

```
    <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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_Fau
ltMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="Activate">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateResponse"
message="tns:BusinessDataCatalogSharedService Activate OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService Activate ArgumentOutOfRangeExceptionFault Fault
Message"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService Activate BdcExceptionStateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMe
ssage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Fault
Message"/>
    </wsdl:operation>
    <wsdl:operation name="Deactivate">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Deactivate"
message="tns:BusinessDataCatalogSharedService_Deactivate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateResponse"
message="tns:BusinessDataCatalogSharedService_Deactivate_OutputMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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
```


Copyright © 2016 Microsoft Corporation

```
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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/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/BusinessDataCatalogShar
edService/GetActionParameterById"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService GetActionParameterById OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFau
lt_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExcept
ionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptio
nFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFa
ult FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionParametersForAction">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction ArgumentExceptionF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction ArgumentNullExcept
ionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction BdcExceptionStateF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction InvalidOperationEx
ceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetActionParametersForAction MetadataExceptionS
tateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetIdentifierById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService GetIdentifierById InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService GetIdentifierById OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFa
ult FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultM
essage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetIdentifiersForEntity">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFa
ult FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExcep
tionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExcepti
onFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateF
ault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodById"
message="tns:BusinessDataCatalogSharedService GetMethodById InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```


Copyright © 2016 Microsoft Corporation

```
edService/GetMethodByIdResponse"
message="tns:BusinessDataCatalogSharedService GetMethodById OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_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/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetMethodById BdcExceptionStateFault FaultMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodById InvalidOperationExceptionFault Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Fault
Message"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodsForDataClass">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClass"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_F
aultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass ArgumentNullExceptionFau
lt_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodsForDataClass ArgumentOutOfRangeExcept
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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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 ArgumentOutOfRangeExceptio
nFault_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_MetadataExceptionStateFaul
t 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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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_InvalidOperationExcepti
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_ArgumentException
Fault_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">
```


Copyright © 2016 Microsoft Corporation

```
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodInstanceById ArgumentNullExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodInstanceById ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetMethodInstanceById InvalidOperationException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetMethodInstanceById MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForDataClass">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
nFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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_MetadataExceptionSt
ateFault_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
```


Copyright © 2016 Microsoft Corporation

```
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
```


Copyright © 2016 Microsoft Corporation

```
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_ArgumentOutOfRangeExcept
ionFault 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_InvalidOperationExceptio
nFault 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 InputMess
age"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance OutputMes
sage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance ArgumentE
xceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance ArgumentN
ullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService IsParameterReferencedByMethodInstance ArgumentO
utOfRangeExceptionFault_FaultMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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 OutputMess
age"/>
      <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 InvalidOpe
rationExceptionFault_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">
```


Copyright © 2016 Microsoft Corporation

```
      <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"
```


Copyright © 2016 Microsoft Corporation

```
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_ArgumentOutOfRangeExcepti
onFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById BdcExceptionStateFault Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById InvalidOperationException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorById MetadataExceptionStateFau
lt FaultMessage"/>
    </wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

```
    <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"
```


Copyright © 2016 Microsoft Corporation

```
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
```


Copyright © 2016 Microsoft Corporation

```
edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetChildTypeDescriptorsForTypeDescriptor Metada
taExceptionStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor InputMess
age"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMes
sage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentE
xceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentN
ullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetTypeDescriptorsForFilterDescriptor ArgumentO
utOfRangeExceptionFault_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_MetadataE
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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"
```


Copyright © 2016 Microsoft Corporation

```
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor InvalidOperat
ionExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService SetDefaultValuesForTypeDescriptor MetadataExcep
tionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessag
e"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessa
ge"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExc
eptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNul
lExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOut
OfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptio
nStateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor InvalidOper
ationExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService DeleteDefaultValueForTypeDescriptor MetadataExc
eptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLevelForTypeDescriptor">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFaul
t 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_BdcExceptionStateFaul
t_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 ArgumentOutOfRangeExceptio
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
```


Copyright © 2016 Microsoft Corporation

```
edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService TypeDescriptorCreate MetadataExceptionStateFaul
t 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 InvalidOperationExceptio
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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFaul
t FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExcepti
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
```


Copyright © 2016 Microsoft Corporation

```
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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExcepti
onFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeE
xceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFa
ult_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExc
eptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionSt
ateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationsForMethod">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethod"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForMethod ArgumentExceptionFault
 FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForMethod ArgumentNullExceptionF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExce
ptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForMethod BdcExceptionStateFault
_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForMethod InvalidOperationExcept
ionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationsForMethod MetadataExceptionState
Fault FaultMessage"/>
    </wsdl:operation>
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:operation name="GetAssociationMembersInRole">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationMembersInRole ArgumentNullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationMembersInRole InvalidOperationExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationMembersInRole MetadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationGroupById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById ArgumentExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupById ArgumentNullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExcep
tionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExcepti
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationGroupsForEntity">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity ArgumentException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity ArgumentNullExcep
tionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity BdcExceptionState
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity InvalidOperationE
xceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService GetAssociationGroupsForEntity MetadataException
StateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns:BusinessDataCatalogSharedService GetAssociationReferencesForAssociationGroup Inp
utMessage"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"
```


Copyright © 2016 Microsoft Corporation

```
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entOutOfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcEx
ceptionStateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inval
idOperationExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Metad
ataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentNullExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentOutOfRangeExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
BdcExceptionStateFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InvalidOperationExceptionFault FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
MetadataExceptionStateFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetXmlSchemaForView">
```


Copyright © 2016 Microsoft Corporation

```
      <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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>
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:operation name="GetAllLocalizedNames">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNames" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPropertiesForMetadataObjectStruct" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllProperties">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllProperties" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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="RemoveLlocalizedName">
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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">
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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"/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
    </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>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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"/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
    </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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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"/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorById">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorById" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetRootTypeDescriptorForParameter">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetRootTypeDescriptorForParameter" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
      <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=""/>
```


Copyright © 2016 Microsoft Corporation

```
      </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">
```


Copyright © 2016 Microsoft Corporation

```
        <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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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">
```


Copyright © 2016 Microsoft Corporation

```
    <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 Faul
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_Faul
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_Faul
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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService CopyAclAcrossChildrenForSetting 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 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:ArgumentNullException"/>
  </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>
```


Copyright © 2016 Microsoft Corporation

```
  <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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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
lt FaultMessage">
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFaul
t FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetActionParametersForAction ArgumentOutOfRangeExcepti
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:ArgumentNullException"/>
  </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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_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_GetActionsForEntity_MetadataExceptionStateFault_FaultM
essage">
    <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_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_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_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 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 GetAllLocalizedNames InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNames"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetAllLocalizedNames 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 GetAllLocalizedNames MetadataExceptionStateFault Fault
Message">
    <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_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_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNu
llExceptionFault_FaultMessage">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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_Faul
tMessage">
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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 Faul
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">
```


Copyright © 2016 Microsoft Corporation

```
    <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:ArgumentNullException"/>
  </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:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExcept
ionFault_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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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 ArgumentOutOfRangeExceptio
nFault_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 MetadataExceptionStateFaul
t_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>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNu
llExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_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_GetAssociationReferencesForAssociationGroup_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_GetAssociationReferencesForAssociationGroup_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetAssociationReferencesForAssociationGroup"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_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_GetAssociationReferencesForAssociationGroup_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetAssociationReferencesForAssociationGroupResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns: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_ArgumentOutOfRangeExceptio
nFault 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_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_GetAssociationsForDataClass_InputMessage">
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:part name="parameters" element="tns:GetAssociationsForDataClass"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_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_GetAssociationsForDataClass_MetadataExceptionStateFaul
t 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_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_GetAssociationsForEntityAndRole_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_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_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_GetAssociationsForEntityAndRole_MetadataExceptionState
Fault_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 FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <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_AccessDeniedException
Fault 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">
```


Copyright © 2016 Microsoft Corporation

```
    <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_InvalidOperationExcep
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_ArgumentExcep
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_MetadataExcep
tionStateFault_FaultMessage">
```


Copyright © 2016 Microsoft Corporation

```
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_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_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 FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetDataClassById MetadataExceptionStateFault FaultMess
age">
    <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_FaultMe
ssage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_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_GetDataClassesForSystem_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_GetDataClassesForSystem_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_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_Fa
ultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
```


Copyright © 2016 Microsoft Corporation

```
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDataClassesForSystemResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_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 GetDefaultValuesForTypeDescriptor 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_GetDefaultValuesForTypeDescriptor_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_GetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetDefaultValuesForTypeDescriptor 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 GetDefaultValuesForTypeDescriptor MetadataExceptionSta
teFault_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 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 GetEntitiesForAssociationAndRole 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_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExc
eptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_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_GetEntitiesForAssociationAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRole"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetEntitiesForAssociationAndRole MetadataExceptionStat
eFault_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 FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_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_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_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_GetEntitiesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetEntitiesForSystem 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 GetEntitiesForSystem MetadataExceptionStateFault Fault
Message">
    <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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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_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_GetEntitiesLikeNameAndNamespace_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_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 ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExcep
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">
```


Copyright © 2016 Microsoft Corporation

```
    <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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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_InputM
essage">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRole"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Invali
dOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Metada
taExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail"
element="q4:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Output
Message">
    <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRoleResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExcept
ionFault_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_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_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespace"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_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_GetEntityWithNameAndNamespace_MetadataExceptionStateFa
ult_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 ArgumentExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeExcept
ionFault_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_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_GetFilterDescriptorsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethod"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_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 GetFilterDescriptorsForMethod MetadataExceptionStateFa
ult_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_FaultMess
age">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_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 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>
```


Copyright © 2016 Microsoft Corporation

```
  <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">
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_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 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:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExcep
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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_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 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_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMe
ssage">
    <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 Fau
ltMessage">
    <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 ArgumentOutOfRangeExceptio
nFault_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 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_GetLobSystemDataByLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetLobSystemDataByLobSystem InvalidOperationExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionStateFaul
t_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_FaultM
essage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_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_GetLobSystemInstanceById_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_GetLobSystemInstanceById_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_GetLobSystemInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstanceById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_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_GetLobSystemInstanceById_MetadataExceptionStateFault_F
aultMessage">
    <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 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 GetLobSystemInstancesForLobSystem ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstancesForLobSystem_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_GetLobSystemInstancesForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetLobSystemInstancesForLobSystem 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_GetLobSystemInstancesForLobSystem_MetadataExceptionSta
teFault_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_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_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNu
llExceptionFault FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_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_GetLobSystemProxyAssemblyBytesByLobSystemId_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_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetLobSystemProxyAssemblyBytesByLobSystemId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService GetLobSystemProxyAssemblyBytesByLobSystemId InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:InvalidOperationException"/>
  </wsdl:message>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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:ArgumentNullException"/>
  </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:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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 ArgumentOutOfRangeExceptio
nFault_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>
```


Copyright © 2016 Microsoft Corporation

```
  <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_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_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>
```


Copyright © 2016 Microsoft Corporation

```
  <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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 Faul
tMessage">
    <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_Faul
tMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_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_GetParametersForMethod_BdcExceptionStateFault_FaultMes
sage">
```


Copyright © 2016 Microsoft Corporation

```
    <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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentOutOfRangeException"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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">
```


Copyright © 2016 Microsoft Corporation

```
    <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_FaultMessa
ge">
    <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 FaultMe
ssage">
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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_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_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_FaultMess
age">
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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">
```


Copyright © 2016 Microsoft Corporation

```
    <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_PackageFormatExceptionStateFaul
t_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_FaultMes
sage">
    <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_FaultMessa
ge">
    <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 FaultMes
sage">
    <wsdl:part xmlns:q5="Microsoft.SharePoint.BusinessData" name="detail"
element="q5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage"
>
    <wsdl:part
xmlns: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"/>
```


Copyright © 2016 Microsoft Corporation

```
  </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">
```


Copyright © 2016 Microsoft Corporation

```
    <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_Faul
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_Fau
ltMessage">
    <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_FaultMessage
">
```


Copyright © 2016 Microsoft Corporation

```
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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">
```


Copyright © 2016 Microsoft Corporation

```
    <wsdl:part name="parameters" element="tns:SetDefaultActionForEntityResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_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_SetDefaultValuesForTypeDescriptor_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_SetDefaultValuesForTypeDescriptor_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_SetDefaultValuesForTypeDescriptor_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 SetDefaultValuesForTypeDescriptor InputMessage">
    <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_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_SetDefaultValuesForTypeDescriptor_MetadataExceptionSta
teFault 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_F
aultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExcept
ionFault_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_F
aultMessage">
```


Copyright © 2016 Microsoft Corporation

```
    <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_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_SetLobSystemDataByLobSystemId_MetadataExceptionStateFa
ult 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_FaultMessa
ge">
    <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q2:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_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_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_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_TypeDescriptorCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:TypeDescriptorCreate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService TypeDescriptorCreate 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_TypeDescriptorCreate_MetadataExceptionStateFault_Fault
Message">
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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_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_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_FaultMess
age">
    <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07 /Microsoft.BusinessData.Infrastructure	q1	7.1
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel	tns1	7.2
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime	tns2	7.3
Microsoft.BusinessData.SharePoint	q4	7.4
http://schemas.datacontract.org/2004/07 /Microsoft.SharePoint.BusinessData.Administration.Client.Constants	tns3	7.5
Microsoft.SharePoint.BusinessData	q5	7.6
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q9	7.7
http://schemas.microsoft.com/2003/10/Serialization/	ser	7.8
http://schemas.datacontract.org/2004/07/System	q2	7.9
http://www.microsoft.com/Office/2009/BusinessDataCatalog	tns	7.10

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.Infrastructur
e" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
</xs:schema>
```

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

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel
" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:simpleType name="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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <xs:enumeration value="Return"/>
      </xs:restriction>
    </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>
```


Copyright © 2016 Microsoft Corporation

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 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.Ad
ministration.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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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: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: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>
```


Copyright © 2016 Microsoft Corporation

```
          <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>
```


Copyright © 2016 Microsoft Corporation

```
    </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>
```


Copyright © 2016 Microsoft Corporation

```
      </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"/>
```


Copyright © 2016 Microsoft Corporation

```
          <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:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.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>
  <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: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">
```


Copyright © 2016 Microsoft Corporation

```
      <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="vlue" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="LocalizedNameStruct" nillable="true" type="q5:LocalizedNameStruct"/>
  <xs:complexType name="ArrayOfPropertyStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="q5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfPropertyStruct" nillable="true" type="q5:ArrayOfPropertyStruct"/>
  <xs:complexType name="PropertyStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="q5:ComplexValueStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="PropertyStruct" nillable="true" type="q5:PropertyStruct"/>
  <xs:complexType name="ComplexValueStruct">
    <xs:sequence>
```


Copyright © 2016 Microsoft Corporation

```
      <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="methodInstanceName" 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">
```


Copyright © 2016 Microsoft Corporation

```
    <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
    </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>
```


Copyright © 2016 Microsoft Corporation

```
  <xs:element name="AssociationReferenceStruct" nillable="true"
type="q5:AssociationReferenceStruct"/>
  <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: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"/>
```


Copyright © 2016 Microsoft Corporation

```
  <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      <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: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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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">
```


Copyright © 2016 Microsoft Corporation

```
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemovePropertyResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAccessControlEntriesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAccessControlEntriesResult" nillable="true"
type="q5:ArrayOfAccessControlEntryStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="q5:ArrayOfAccessControlEntryStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntriesResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="q5:MetadataObjectStruct"/>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="q5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="q5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Update">
    <xs:complexType>
```


Copyright © 2016 Microsoft Corporation

```
      <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>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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>
```


Copyright © 2016 Microsoft Corporation

```
  </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>
```


Copyright © 2016 Microsoft Corporation

```
  </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">
```


Copyright © 2016 Microsoft Corporation

```
    <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>
```


Copyright © 2016 Microsoft Corporation

```
      <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>
```


Copyright © 2016 Microsoft Corporation

```
  </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>
```


Copyright © 2016 Microsoft Corporation

```
  </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: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">
```


Copyright © 2016 Microsoft Corporation

```
    <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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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 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>
```


Copyright © 2016 Microsoft Corporation

```
      <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>
```


Copyright © 2016 Microsoft Corporation

```
  <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>
```


Copyright © 2016 Microsoft Corporation

```
  </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>
```


Copyright © 2016 Microsoft Corporation

```
    </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>
```


Copyright © 2016 Microsoft Corporation

```
  <xs:element name="GetParameterByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="q5:ParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetParametersForMethod">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetParametersForMethodResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="q5:ArrayOfParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="IsParameterReferencedByMethodInstance">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="IsParameterReferencedByMethodInstanceResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeReflectorTypeNameForParameter">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="q5:ParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeReflectorTypeNameForParameterResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="q5:TypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence>
```


Copyright © 2016 Microsoft Corporation

```
        <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="methodInstanceName" 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"/>
```


Copyright © 2016 Microsoft Corporation

```
      </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: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>
```


Copyright © 2016 Microsoft Corporation

```
        <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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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"/>
```


Copyright © 2016 Microsoft Corporation

```
      </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 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"/>
```


Copyright © 2016 Microsoft Corporation

```
        <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>
```


Copyright © 2016 Microsoft Corporation

```
    </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: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:schema>
```


Copyright © 2016 Microsoft Corporation

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 released service packs.

- Microsoft Office 2010 suites
- Microsoft SharePoint Foundation 2010
- Microsoft Office 2013
- Microsoft SharePoint Foundation 2013
- Microsoft Office 2016
- Microsoft SharePoint Server 2016

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product 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.

Copyright © 2016 Microsoft Corporation

<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 Unicode text.
System.Int16	A number in the range from –32,768 through 32,767.
System.Int32	A number in the range from –2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from –9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from 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.

Copyright © 2016 Microsoft Corporation

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 **URL**.

<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**.

Copyright © 2016 Microsoft Corporation

<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** must be 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.

Copyright © 2016 Microsoft Corporation

<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.

Copyright © 2016 Microsoft Corporation

<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**.

Copyright © 2016 Microsoft Corporation

<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.

Copyright © 2016 Microsoft Corporation

<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.

Copyright © 2016 Microsoft Corporation

<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.

Copyright © 2016 Microsoft Corporation

9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

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 or functionality.
- The removal of a document from the documentation set.

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 **Editorial** means that the formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.
- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

Copyright © 2016 Microsoft Corporation

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
8 Appendix C: Product Behavior	Updated list of supported products.	Y	Content updated due to protocol revision.

Copyright © 2016 Microsoft Corporation

10 Index

A

Abstract data model
  server 88
AccessControlEntryStruct complex type 52
AccessDeniedException complex type 53
AccessDeniedExceptionState complex type 53
ActionParameterStruct complex type 54
ActionStruct complex type 54
Activate an Entity example 528
Adding localized names for MetadataObjects example 533
AdministrationMetadataCatalogStruct complex type 55
Applicability 45
ArgumentException complex type 55
ArgumentNullException complex type 55
ArgumentOutOfRangeException complex type 56
ArrayOfAccessControlEntryStruct complex type 56
ArrayOfAssociationStruct complex type 56
ArrayOfEntityStruct complex type 56
ArrayOfLobSystemStruct complex type 57
ArrayOfLocalizedNameStruct complex type 57
ArrayOfMethodInstanceStruct complex type 57
ArrayOfModelStruct complex type 58
ArrayOfPropertyStruct complex type 58
ArrayOfstring complex type 58
ArrayOfTypeDescriptorStruct complex type 58
ArrayOfunsignedInt complex type 59
AssociationGroupStruct complex type 59
AssociationReferenceStruct complex type 60
AssociationStruct complex type 61
Attribute groups 87
Attributes 87

B

BdcException complex type 62
BdcExceptionState complex type 62

C

CacheUsage simple type 80
Capability negotiation 45
Change tracking 784
char simple type 80
Complex types 48
  AccessControlEntryStruct 52
  AccessDeniedException 53
  AccessDeniedExceptionState 53
  ActionParameterStruct 54
  ActionStruct 54
  AdministrationMetadataCatalogStruct 55
  ArgumentException 55
  ArgumentNullException 55
  ArgumentOutOfRangeException 56
  ArrayOfAccessControlEntryStruct 56
  ArrayOfAssociationStruct 56
  ArrayOfEntityStruct 56
  ArrayOfLobSystemStruct 57
  ArrayOfLocalizedNameStruct 57
  ArrayOfMethodInstanceStruct 57
  ArrayOfModelStruct 58
  ArrayOfPropertyStruct 58
  ArrayOfstring 58
  ArrayOfTypeDescriptorStruct 58
  ArrayOfunsignedInt 59
  AssociationGroupStruct 59
  AssociationReferenceStruct 60
  AssociationStruct 61
  BdcException 62
  BdcExceptionState 62
  ComplexValueStruct 62
  ConcurrentModificationExceptionState 63
  DataClassStruct 63
  DefaultValueStruct 64
  DuplicateMetadataObjectExceptionState 64
  EntityStruct 65
  ExceededMetadataObjectLimitExceptionState 65
  Exception 66
  FilterDescriptorStruct 66
  IdentifierStruct 66
  InvalidMetadataObjectExceptionState 68
  InvalidMetadataPropertyExceptionState 68
  InvalidOperationException 68
  LobSystemInstanceStruct 69
  LobSystemStruct 69
  LocalizedNameStruct 69
  MetadataException 70
  MetadataObjectNotFoundExceptionState 70
  MetadataObjectStruct 71
  MethodInstanceStruct 72
  MethodStruct 72
  ModelStruct 73
  PackageFormatExceptionState 73
  ParameterStruct 74
  PropertyStruct 74
  ProxyGenerationResult 75
  SystemException 75
  TypeDescriptorStruct 75
  Version 79
ComplexValueStruct complex type 62
ConcurrentModificationExceptionState complex type 63
Creating an Entity example 527
Creating an LobSystem example 523
Creating properties for MetadataObjects example 531

D

Data model - abstract
  server 88
DataClassStruct complex type 63
DefaultValueStruct complex type 64
Deleting an Entity example 535
DirectionType simple type 80
DuplicateMetadataObjectExceptionState complex type 64
duration simple type 81

E

Copyright © 2016 Microsoft Corporation

EntityStruct complex type 65
Events
  local - server 522
  timer - server 522
Examples
  activate an Entity 528
  adding localized names for MetadataObjects 533
  creating an Entity 527
  creating an LobSystem 523
  creating properties for MetadataObjects 531
  deleting an Entity 535
  overview 523
  reading an Entity 530
  reading the security information of a MetadataObject 525
  setting the security information of a MetadataObject 524
  updating an Entity 534
ExceededMetadataObjectLimitExceptionState complex type 65
Exception complex type 66

F

Fields - vendor-extensible 46
FilterDescriptorStruct complex type 66
FilterType simple type 81
Full WSDL 538
Full XML schema 729
  http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema 729
  http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema 730
  http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema 732
  http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants Schema 732
  http://schemas.datacontract.org/2004/07/System Schema 744
  http://schemas.microsoft.com/2003/10/Serialization/ Schema 743
  http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema 743
  http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema 745
  Microsoft.BusinessData.SharePoint Schema 732
  Microsoft.SharePoint.BusinessData Schema 733

G

Glossary 36
Groups 87
guid simple type 83

I

IdentifierStruct complex type 66
Implementer - security considerations 537
Index of security parameters 537
Informative references 44
Initialization
  server 93
Introduction 36
InvalidMetadataObjectExceptionState complex type 68
InvalidMetadataPropertyExceptionState complex type 68
InvalidOperationException complex type 68

L

LobSystemInstanceStruct complex type 69
LobSystemStruct complex type 69
Local events
  server 522
LocalizedNameStruct complex type 69

M

Message processing
  server 93
Messages
  AccessControlEntryStruct complex type 52
  AccessDeniedException complex type 53
  AccessDeniedExceptionState complex type 53
  ActionParameterStruct complex type 54
  ActionStruct complex type 54
  AdministrationMetadataCatalogStruct complex type 55
  ArgumentException complex type 55
  ArgumentNullException complex type 55
  ArgumentOutOfRangeException complex type 56
  ArrayOfAccessControlEntryStruct complex type 56
  ArrayOfAssociationStruct complex type 56
  ArrayOfEntityStruct complex type 56
  ArrayOfLobSystemStruct complex type 57
  ArrayOfLocalizedNameStruct complex type 57
  ArrayOfMethodInstanceStruct complex type 57
  ArrayOfModelStruct complex type 58
  ArrayOfPropertyStruct complex type 58
  ArrayOfstring complex type 58
  ArrayOfTypeDescriptorStruct complex type 58
  ArrayOfunsignedInt complex type 59
  AssociationGroupStruct complex type 59
  AssociationReferenceStruct complex type 60
  AssociationStruct complex type 61
  attribute groups 87
  attributes 87
  BdcException complex type 62
  BdcExceptionState complex type 62
  CacheUsage simple type 80
  char simple type 80
  complex types 48
  ComplexValueStruct complex type 62
  ConcurrentModificationExceptionState complex type 63
  DataClassStruct complex type 63
  DefaultValueStruct complex type 64
  DirectionType simple type 80
  DuplicateMetadataObjectExceptionState complex type 64

Copyright © 2016 Microsoft Corporation

duration simple type 81
elements 48
EntityStruct complex type 65
enumerated 48
ExceededMetadataObjectLimitExceptionState complex type 65
Exception complex type 66
FilterDescriptorStruct complex type 66
FilterType simple type 81
groups 87
guid simple type 83
IdentifierStruct complex type 66
InvalidMetadataObjectExceptionState complex type 68
InvalidMetadataPropertyExceptionState complex type 68
InvalidOperationException complex type 68
LobSystemInstanceStruct complex type 69
LobSystemStruct complex type 69
LocalizedNameStruct complex type 69
MetadataException complex type 70
MetadataObjectNotFoundExceptionState complex type 70
MetadataObjectStruct complex type 71
MethodInstanceStruct complex type 72
MethodInstanceType simple type 83
MethodStruct complex type 72
ModelStruct complex type 73
namespaces 47
PackageContents simple type 84
PackageFormatExceptionState complex type 73
ParameterStruct complex type 74
PropertyStruct complex type 74
ProxyGenerationResult complex type 75
simple types 79
syntax 47
SystemException complex type 75
SystemType simple type 85
transport 47
TypeDescriptorFlags simple type 86
TypeDescriptorStruct complex type 75
Version complex type 79
MetadataException complex type 70
MetadataObjectNotFoundExceptionState complex type 70
MetadataObjectStruct complex type 71
MethodInstanceStruct complex type 72
MethodInstanceType simple type 83
MethodStruct complex type 72
ModelStruct complex type 73

N

Namespaces 47
Normative references 43

O

Operations
Activate 110
AddAssociationReferenceToAssociationGroup 113
AddEntityToModel 117
BulkSwitchActiveOrValidate 120
CheckPathInMethodInstances 128
ClearLocalizedNames 131
ClearProperties 134
CopyAclAcrossChildren 137
CopyAclAcrossChildrenForSetting 140
CopyAclToSetting 144
Deactivate 147
Delete 151
DeleteAssociationReferenceFromAssociationGroup 155
DeleteDefaultValueForTypeDescriptor 159
DeleteNoCascade 162
DeleteProxyAssemblyForLobSystem 166
EntityCreate 169
ExportPackage 173
GenerateProxyAssemblyForLobSystem 176
GetAccessControlEntries 179
GetActionById 183
GetActionParameterById 186
GetActionParametersForAction 189
GetActionsForEntity 192
GetAllLocalizedNames 195
GetAllLocalizedNamesForMetadataObjectStruct 199
GetAllPartitionIds 202
GetAllProperties 205
GetAllPropertiesForMetadataObjectStruct 208
GetAssociationById 212
GetAssociationGroupById 215
GetAssociationGroupsForEntity 218
GetAssociationMembersInRole 221
GetAssociationReferencesForAssociationGroup 226
GetAssociationsForDataClass 229
GetAssociationsForEntityAndRole 232
GetAssociationsForMethod 236
GetCacheInvalidationRecordsSince 239
GetChildTypeDescriptorsForTypeDescriptor 243
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor 246
GetDataClassById 249
GetDataClassesForSystem 253
GetDefaultValuesForTypeDescriptor 256
GetEntitiesForAssociationAndRole 260
GetEntitiesForSystem 263
GetEntitiesLikeNameAndNamespace 266
GetEntitiesReferencedByModelId 270
GetEntityById 274
GetEntityCount 277
GetEntityNameAndNamespacesForAssociationAndRole 280
GetEntityWithNameAndNamespace 284
GetEntityWithNameAndNamespaceAndVersion 287
GetFieldTypeDescriptorsByMethodInstance 290
GetFilterDescriptorById 294
GetFilterDescriptorsForMethod 297
GetIdentifierById 300
GetIdentifiersForEntity 303
GetImportProgress 307
GetLevelForTypeDescriptor 309
GetLobSystemAllAssembliesBytes 312
GetLobSystemById 316
GetLobSystemByName 319
GetLobSystemDataByLobSystem 322
GetLobSystemInstanceById 325
GetLobSystemInstancesForLobSystem 329

Copyright © 2016 Microsoft Corporation

GetLobSystemProxyAssemblyBytesByLobSystemId 333
GetLobSystemsLikeName 336
GetLobSystemsReferencedByEntitiesAssociatedWithModel 340
GetMethodById 344
GetMethodInstanceById 347
GetMethodInstancesForDataClass 350
GetMethodInstancesForMethod 353
GetMethodsForDataClass 356
GetModelById 360
GetModelByName 363
GetModelsByEntityId 366
GetModelsByName 368
GetParameterById 372
GetParametersForMethod 375
GetRootTypeDescriptorForParameter 378
GetServiceApplicationId 381
GetSystemUtilityTypeNameForLobSystem 384
GetTypeDescriptorById 387
GetTypeDescriptorsByNameAndLevelForParameter 390
GetTypeDescriptorsForFilterDescriptor 393
GetTypeReflectorTypeNameForParameter 396
GetXmlSchemaForView 400
HaveRights 405
ImportPackage 408
ImportPackageWithProgress 415
IsMethodInstantiated 421
IsParameterReferencedByMethodInstance 424
MetadataObjectCreate 427
MetadataObjectMergeXml 435
MetadataObjectReadXml 442
MetadataObjectWriteXml 452
ModelReadXml 458
ReadSlicedXml 465
RemoveEntityFromModel 468
RemoveLocalizedName 471
RemoveProperty 474
SaveLocalizedName 477
SaveProperty 480
SetAccessControlEntries 483
SetDefaultActionForEntity 487
SetDefaultValuesForTypeDescriptor 490
SetLobSystemDataByLobSystemId 493
TypeDescriptorCreate 496
TypeDescriptorMergeXml 500
TypeDescriptorReadXml 504
Update 511
WriteSlicedXml 519
Overview (synopsis) 44

P

PackageContents simple type 84
PackageFormatExceptionState complex type 73
Parameters - security index 537
ParameterStruct complex type 74
Preconditions 45
Prerequisites 45
Product behavior 775
PropertyStruct complex type 74
Protocol Details
overview 88
ProxyGenerationResult complex type 75

R

Reading an Entity example 530
Reading the security information of a MetadataObject example 525
References 43
informative 44
normative 43
Relationship to other protocols 45

S

Security
implementer considerations 537
parameter index 537
Sequencing rules
server 93
Server
abstract data model 88
Activate operation 110
AddAssociationReferenceToAssociationGroup operation 113
AddEntityToModel operation 117
BulkSwitchActiveOrValidate operation 120
CheckPathInMethodInstances operation 128
ClearLocalizedNames operation 131
ClearProperties operation 134
CopyAclAcrossChildren operation 137
CopyAclAcrossChildrenForSetting operation 140
CopyAclToSetting operation 144
Deactivate operation 147
Delete operation 151
DeleteAssociationReferenceFromAssociationGroup operation 155
DeleteDefaultValueForTypeDescriptor operation 159
DeleteNoCascade operation 162
DeleteProxyAssemblyForLobSystem operation 166
details 88
EntityCreate operation 169
ExportPackage operation 173
GenerateProxyAssemblyForLobSystem operation 176
GetAccessControlEntries operation 179
GetActionById operation 183
GetActionParameterById operation 186
GetActionParametersForAction operation 189
GetActionsForEntity operation 192
GetAllLocalizedNames operation 195
GetAllLocalizedNamesForMetadataObjectStruct operation 199
GetAllPartitionIds operation 202
GetAllProperties operation 205
GetAllPropertiesForMetadataObjectStruct operation 208
GetAssociationById operation 212
GetAssociationGroupById operation 215
GetAssociationGroupsForEntity operation 218
GetAssociationMembersInRole operation 221
GetAssociationReferencesForAssociationGroup operation 226
GetAssociationsForDataClass operation 229
GetAssociationsForEntityAndRole operation 232

Copyright © 2016 Microsoft Corporation

GetAssociationsForMethod operation 236
GetCacheInvalidationRecordsSince operation 239
GetChildTypeDescriptorsForTypeDescriptor operation 243
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor operation 246
GetDataClassById operation 249
GetDataClassesForSystem operation 253
GetDefaultValuesForTypeDescriptor operation 256
GetEntitiesForAssociationAndRole operation 260
GetEntitiesForSystem operation 263
GetEntitiesLikeNameAndNamespace operation 266
GetEntitiesReferencedByModelId operation 270
GetEntityById operation 274
GetEntityCount operation 277
GetEntityNameAndNamespacesForAssociationAndRole operation 280
GetEntityWithNameAndNamespace operation 284
GetEntityWithNameAndNamespaceAndVersion operation 287
GetFieldTypeDescriptorsByMethodInstance operation 290
GetFilterDescriptorById operation 294
GetFilterDescriptorsForMethod operation 297
GetIdentifierById operation 300
GetIdentifiersForEntity operation 303
GetImportProgress operation 307
GetLevelForTypeDescriptor operation 309
GetLobSystemAllAssembliesBytes operation 312
GetLobSystemById operation 316
GetLobSystemByName operation 319
GetLobSystemDataByLobSystem operation 322
GetLobSystemInstanceById operation 325
GetLobSystemInstancesForLobSystem operation 329
GetLobSystemProxyAssemblyBytesByLobSystemId operation 333
GetLobSystemsLikeName operation 336
GetLobSystemsReferencedByEntitiesAssociatedWithModel operation 340
GetMethodById operation 344
GetMethodInstanceById operation 347
GetMethodInstancesForDataClass operation 350
GetMethodInstancesForMethod operation 353
GetMethodsForDataClass operation 356
GetModelById operation 360
GetModelByName operation 363
GetModelsByEntityId operation 366
GetModelsByName operation 368
GetParameterById operation 372
GetParametersForMethod operation 375
GetRootTypeDescriptorForParameter operation 378
GetServiceApplicationId operation 381
GetSystemUtilityTypeNameForLobSystem operation 384
GetTypeDescriptorById operation 387
GetTypeDescriptorsByNameAndLevelForParameter operation 390
GetTypeDescriptorsForFilterDescriptor operation 393
GetTypeReflectorTypeNameForParameter operation 396
GetXmlSchemaForView operation 400
HaveRights operation 405
ImportPackage operation 408
ImportPackageWithProgress operation 415
initialization 93
IsMethodInstantiated operation 421
IsParameterReferencedByMethodInstance operation 424
local events 522
message processing 93
MetadataObjectCreate operation 427
MetadataObjectMergeXml operation 435
MetadataObjectReadXml operation 442
MetadataObjectWriteXml operation 452
ModelReadXml operation 458
ReadSlicedXml operation 465
RemoveEntityFromModel operation 468
RemoveLocalizedName operation 471
RemoveProperty operation 474
SaveLocalizedName operation 477
SaveProperty operation 480
sequencing rules 93
SetAccessControlEntries operation 483
SetDefaultActionForEntity operation 487
SetDefaultValuesForTypeDescriptor operation 490
SetLobSystemDataByLobSystemId operation 493
timer events 522
timers 93
TypeDescriptorCreate operation 496
TypeDescriptorMergeXml operation 500
TypeDescriptorReadXml operation 504
Update operation 511
WriteSlicedXml operation 519
Setting the security information of a MetadataObject example 524
Simple types 79
CacheUsage 80
char 80
DirectionType 80
duration 81
FilterType 81
guid 83
MethodInstanceType 83
PackageContents 84
SystemType 85
TypeDescriptorFlags 86
Standards assignments 46
Syntax
messages - overview 47
SystemException complex type 75
SystemType simple type 85

T

Timer events
server 522
Timers
server 93
Tracking changes 784
Transport 47
TypeDescriptorFlags simple type 86
TypeDescriptorStruct complex type 75
Types
complex 48
simple 79

Copyright © 2016 Microsoft Corporation

U

Updating an Entity example 534

V

Vendor-extensible fields 46
Version complex type 79
Versioning 45

W

WSDL 538

X

XML schema 729

http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema 729

http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema 730

http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema 732

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants Schema 732
http://schemas.datacontract.org/2004/07/System Schema 744

http://schemas.microsoft.com/2003/10/Serialization/ Schema 743

http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema 743

http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema 745
Microsoft.BusinessData.SharePoint Schema 732
Microsoft.SharePoint.BusinessData Schema 733

Copyright © 2016 Microsoft Corporation