**[MS-BDCWPS]:**

**Business Data Connectivity Web Service Protocol**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 7/13/2009 | 0.1 | Major | Initial Availability |
| 8/28/2009 | 0.2 | Editorial | Revised and edited the technical content |
| 11/6/2009 | 0.3 | Editorial | Revised and edited the technical content |
| 2/19/2010 | 1.0 | Major | Updated and revised the technical content |
| 3/31/2010 | 1.01 | Editorial | Revised and edited the technical content |
| 4/30/2010 | 1.02 | Editorial | Revised and edited the technical content |
| 6/7/2010 | 1.03 | Editorial | Revised and edited the technical content |
| 6/29/2010 | 1.04 | Editorial | Changed language and formatting in the technical content. |
| 7/23/2010 | 1.05 | Major | Significantly changed the technical content. |
| 9/27/2010 | 1.05 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 1.06 | Major | Significantly changed the technical content. |
| 12/17/2010 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/18/2011 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/10/2011 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/20/2012 | 2.0 | Major | Significantly changed the technical content. |
| 4/11/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/12/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/11/2013 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/30/2013 | 2.1 | Minor | Clarified the meaning of the technical content. |
| 11/18/2013 | 2.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/10/2014 | 2.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/30/2014 | 2.2 | Minor | Clarified the meaning of the technical content. |
| 7/31/2014 | 2.3 | Minor | Clarified the meaning of the technical content. |
| 10/30/2014 | 2.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/26/2016 | 3.0 | Major | Significantly changed the technical content. |
| 7/15/2016 | 3.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/14/2016 | 3.1 | Minor | Clarified the meaning of the technical content. |
| 11/14/2016 | 3.2 | Minor | Clarified the meaning of the technical content. |

Table of Contents

[1 Introduction 37](#_Toc466892639)

[1.1 Glossary 37](#_Toc466892640)

[1.2 References 44](#_Toc466892641)

[1.2.1 Normative References 44](#_Toc466892642)

[1.2.2 Informative References 44](#_Toc466892643)

[1.3 Protocol Overview (Synopsis) 45](#_Toc466892644)

[1.4 Relationship to Other Protocols 45](#_Toc466892645)

[1.5 Prerequisites/Preconditions 46](#_Toc466892646)

[1.6 Applicability Statement 46](#_Toc466892647)

[1.7 Versioning and Capability Negotiation 46](#_Toc466892648)

[1.8 Vendor-Extensible Fields 46](#_Toc466892649)

[1.9 Standards Assignments 46](#_Toc466892650)

[2 Messages 47](#_Toc466892651)

[2.1 Transport 47](#_Toc466892652)

[2.2 Common Message Syntax 47](#_Toc466892653)

[2.2.1 Namespaces 47](#_Toc466892654)

[2.2.2 Messages 48](#_Toc466892655)

[2.2.3 Elements 48](#_Toc466892656)

[2.2.4 Complex Types 48](#_Toc466892657)

[2.2.4.1 AccessControlEntryStruct 53](#_Toc466892658)

[2.2.4.2 AccessDeniedException 53](#_Toc466892659)

[2.2.4.3 AccessDeniedExceptionState 53](#_Toc466892660)

[2.2.4.4 ActionParameterStruct 54](#_Toc466892661)

[2.2.4.5 ActionStruct 54](#_Toc466892662)

[2.2.4.6 AdministrationMetadataCatalogStruct 55](#_Toc466892663)

[2.2.4.7 ArgumentException 55](#_Toc466892664)

[2.2.4.8 ArgumentNullException 56](#_Toc466892665)

[2.2.4.9 ArgumentOutOfRangeException 56](#_Toc466892666)

[2.2.4.10 ArrayOfAccessControlEntryStruct 56](#_Toc466892667)

[2.2.4.11 ArrayOfAssociationStruct 56](#_Toc466892668)

[2.2.4.12 ArrayOfEntityStruct 57](#_Toc466892669)

[2.2.4.13 ArrayOfLobSystemStruct 57](#_Toc466892670)

[2.2.4.14 ArrayOfLocalizedNameStruct 57](#_Toc466892671)

[2.2.4.15 ArrayOfMethodInstanceStruct 58](#_Toc466892672)

[2.2.4.16 ArrayOfModelStruct 58](#_Toc466892673)

[2.2.4.17 ArrayOfPropertyStruct 58](#_Toc466892674)

[2.2.4.18 ArrayOfstring 58](#_Toc466892675)

[2.2.4.19 ArrayOfTypeDescriptorStruct 59](#_Toc466892676)

[2.2.4.20 ArrayOfunsignedInt 59](#_Toc466892677)

[2.2.4.21 AssociationGroupStruct 59](#_Toc466892678)

[2.2.4.22 AssociationReferenceStruct 60](#_Toc466892679)

[2.2.4.23 AssociationStruct 61](#_Toc466892680)

[2.2.4.24 BdcException 62](#_Toc466892681)

[2.2.4.25 BdcExceptionState 62](#_Toc466892682)

[2.2.4.26 ComplexValueStruct 63](#_Toc466892683)

[2.2.4.27 ConcurrentModificationExceptionState 63](#_Toc466892684)

[2.2.4.28 DataClassStruct 64](#_Toc466892685)

[2.2.4.29 DefaultValueStruct 64](#_Toc466892686)

[2.2.4.30 DuplicateMetadataObjectExceptionState 65](#_Toc466892687)

[2.2.4.31 EntityStruct 65](#_Toc466892688)

[2.2.4.32 ExceededMetadataObjectLimitExceptionState 66](#_Toc466892689)

[2.2.4.33 Exception 66](#_Toc466892690)

[2.2.4.34 FilterDescriptorStruct 66](#_Toc466892691)

[2.2.4.35 IdentifierStruct 67](#_Toc466892692)

[2.2.4.36 InvalidMetadataObjectExceptionState 68](#_Toc466892693)

[2.2.4.37 InvalidMetadataPropertyExceptionState 68](#_Toc466892694)

[2.2.4.38 InvalidOperationException 69](#_Toc466892695)

[2.2.4.39 LobSystemInstanceStruct 69](#_Toc466892696)

[2.2.4.40 LobSystemStruct 70](#_Toc466892697)

[2.2.4.41 LocalizedNameStruct 70](#_Toc466892698)

[2.2.4.42 MetadataException 70](#_Toc466892699)

[2.2.4.43 MetadataObjectNotFoundExceptionState 71](#_Toc466892700)

[2.2.4.44 MetadataObjectStruct 71](#_Toc466892701)

[2.2.4.45 MethodInstanceStruct 72](#_Toc466892702)

[2.2.4.46 MethodStruct 73](#_Toc466892703)

[2.2.4.47 ModelStruct 73](#_Toc466892704)

[2.2.4.48 PackageFormatExceptionState 74](#_Toc466892705)

[2.2.4.49 ParameterStruct 74](#_Toc466892706)

[2.2.4.50 PropertyStruct 75](#_Toc466892707)

[2.2.4.51 ProxyGenerationResult 75](#_Toc466892708)

[2.2.4.52 SafetyNetStruct 76](#_Toc466892709)

[2.2.4.53 TypeDescriptorStruct 77](#_Toc466892710)

[2.2.4.54 Version 80](#_Toc466892711)

[2.2.5 Simple Types 80](#_Toc466892712)

[2.2.5.1 CacheUsage 81](#_Toc466892713)

[2.2.5.2 char 82](#_Toc466892714)

[2.2.5.3 DirectionType 82](#_Toc466892715)

[2.2.5.4 FilterType 82](#_Toc466892716)

[2.2.5.5 MethodInstanceType 84](#_Toc466892717)

[2.2.5.6 PackageContents 86](#_Toc466892718)

[2.2.5.7 SystemType 86](#_Toc466892719)

[2.2.5.8 ThrottleScope 87](#_Toc466892720)

[2.2.5.9 ThrottleType 88](#_Toc466892721)

[2.2.5.10 TypeDescriptorFlags 89](#_Toc466892722)

[2.2.6 Attributes 90](#_Toc466892723)

[2.2.7 Groups 90](#_Toc466892724)

[2.2.8 Attribute Groups 90](#_Toc466892725)

[3 Protocol Details 91](#_Toc466892726)

[3.1 Server Details 91](#_Toc466892727)

[3.1.1 Abstract Data Model 91](#_Toc466892728)

[3.1.2 Timers 97](#_Toc466892729)

[3.1.3 Initialization 97](#_Toc466892730)

[3.1.4 Message Processing Events and Sequencing Rules 97](#_Toc466892731)

[3.1.4.1 Activate 114](#_Toc466892732)

[3.1.4.1.1 Messages 115](#_Toc466892733)

[3.1.4.1.1.1 BusinessDataCatalogSharedService\_Activate\_InputMessage 116](#_Toc466892734)

[3.1.4.1.1.2 BusinessDataCatalogSharedService\_Activate\_OutputMessage 116](#_Toc466892735)

[3.1.4.1.2 Elements 116](#_Toc466892736)

[3.1.4.1.2.1 Activate 116](#_Toc466892737)

[3.1.4.1.2.2 ActivateResponse 116](#_Toc466892738)

[3.1.4.1.3 Complex Types 117](#_Toc466892739)

[3.1.4.1.4 Simple Types 117](#_Toc466892740)

[3.1.4.1.5 Attributes 117](#_Toc466892741)

[3.1.4.1.6 Groups 117](#_Toc466892742)

[3.1.4.1.7 Attribute Groups 117](#_Toc466892743)

[3.1.4.2 AddAssociationReferenceToAssociationGroup 117](#_Toc466892744)

[3.1.4.2.1 Messages 119](#_Toc466892745)

[3.1.4.2.1.1 BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage 119](#_Toc466892746)

[3.1.4.2.1.2 BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage 119](#_Toc466892747)

[3.1.4.2.2 Elements 120](#_Toc466892748)

[3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup 120](#_Toc466892749)

[3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse 120](#_Toc466892750)

[3.1.4.2.3 Complex Types 121](#_Toc466892751)

[3.1.4.2.4 Simple Types 121](#_Toc466892752)

[3.1.4.2.5 Attributes 121](#_Toc466892753)

[3.1.4.2.6 Groups 121](#_Toc466892754)

[3.1.4.2.7 Attribute Groups 121](#_Toc466892755)

[3.1.4.3 AddEntityToModel 121](#_Toc466892756)

[3.1.4.3.1 Messages 122](#_Toc466892757)

[3.1.4.3.1.1 BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage 123](#_Toc466892758)

[3.1.4.3.1.2 BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage 123](#_Toc466892759)

[3.1.4.3.2 Elements 123](#_Toc466892760)

[3.1.4.3.2.1 AddEntityToModel 123](#_Toc466892761)

[3.1.4.3.2.2 AddEntityToModelResponse 123](#_Toc466892762)

[3.1.4.3.3 Complex Types 124](#_Toc466892763)

[3.1.4.3.4 Simple Types 124](#_Toc466892764)

[3.1.4.3.5 Attributes 124](#_Toc466892765)

[3.1.4.3.6 Groups 124](#_Toc466892766)

[3.1.4.3.7 Attribute Groups 124](#_Toc466892767)

[3.1.4.4 AddThrottlingRule 124](#_Toc466892768)

[3.1.4.4.1 Messages 125](#_Toc466892769)

[3.1.4.4.1.1 BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage 125](#_Toc466892770)

[3.1.4.4.1.2 BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage 125](#_Toc466892771)

[3.1.4.4.2 Elements 125](#_Toc466892772)

[3.1.4.4.2.1 AddThrottlingRule 126](#_Toc466892773)

[3.1.4.4.2.2 AddThrottlingRuleResponse 126](#_Toc466892774)

[3.1.4.4.3 Complex Types 126](#_Toc466892775)

[3.1.4.4.4 Simple Types 126](#_Toc466892776)

[3.1.4.4.5 Attributes 126](#_Toc466892777)

[3.1.4.4.6 Groups 126](#_Toc466892778)

[3.1.4.4.7 Attribute Groups 126](#_Toc466892779)

[3.1.4.5 BulkSwitchActiveOrValidate 127](#_Toc466892780)

[3.1.4.5.1 Messages 128](#_Toc466892781)

[3.1.4.5.1.1 BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage 128](#_Toc466892782)

[3.1.4.5.1.2 BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage 129](#_Toc466892783)

[3.1.4.5.2 Elements 129](#_Toc466892784)

[3.1.4.5.2.1 BulkSwitchActiveOrValidate 129](#_Toc466892785)

[3.1.4.5.2.2 BulkSwitchActiveOrValidateResponse 130](#_Toc466892786)

[3.1.4.5.3 Complex Types 130](#_Toc466892787)

[3.1.4.5.3.1 ArrayOfActivationErrorRecordStruct 130](#_Toc466892788)

[3.1.4.5.3.2 ActivationErrorRecordStruct 131](#_Toc466892789)

[3.1.4.5.4 Simple Types 137](#_Toc466892790)

[3.1.4.5.5 Attributes 138](#_Toc466892791)

[3.1.4.5.6 Groups 138](#_Toc466892792)

[3.1.4.5.7 Attribute Groups 138](#_Toc466892793)

[3.1.4.6 CheckPathInMethodInstances 138](#_Toc466892794)

[3.1.4.6.1 Messages 139](#_Toc466892795)

[3.1.4.6.1.1 BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage 139](#_Toc466892796)

[3.1.4.6.1.2 BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage 139](#_Toc466892797)

[3.1.4.6.2 Elements 140](#_Toc466892798)

[3.1.4.6.2.1 CheckPathInMethodInstances 140](#_Toc466892799)

[3.1.4.6.2.2 CheckPathInMethodInstancesResponse 140](#_Toc466892800)

[3.1.4.6.3 Complex Types 141](#_Toc466892801)

[3.1.4.6.4 Simple Types 141](#_Toc466892802)

[3.1.4.6.5 Attributes 141](#_Toc466892803)

[3.1.4.6.6 Groups 141](#_Toc466892804)

[3.1.4.6.7 Attribute Groups 141](#_Toc466892805)

[3.1.4.7 ClearLocalizedNames 141](#_Toc466892806)

[3.1.4.7.1 Messages 142](#_Toc466892807)

[3.1.4.7.1.1 BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage 143](#_Toc466892808)

[3.1.4.7.1.2 BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage 143](#_Toc466892809)

[3.1.4.7.2 Elements 143](#_Toc466892810)

[3.1.4.7.2.1 ClearLocalizedNames 143](#_Toc466892811)

[3.1.4.7.2.2 ClearLocalizedNamesResponse 144](#_Toc466892812)

[3.1.4.7.3 Complex Types 144](#_Toc466892813)

[3.1.4.7.4 Simple Types 144](#_Toc466892814)

[3.1.4.7.5 Attributes 144](#_Toc466892815)

[3.1.4.7.6 Groups 144](#_Toc466892816)

[3.1.4.7.7 Attribute Groups 144](#_Toc466892817)

[3.1.4.8 ClearProperties 144](#_Toc466892818)

[3.1.4.8.1 Messages 145](#_Toc466892819)

[3.1.4.8.1.1 BusinessDataCatalogSharedService\_ClearProperties\_InputMessage 146](#_Toc466892820)

[3.1.4.8.1.2 BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage 146](#_Toc466892821)

[3.1.4.8.2 Elements 146](#_Toc466892822)

[3.1.4.8.2.1 ClearProperties 146](#_Toc466892823)

[3.1.4.8.2.2 ClearPropertiesResponse 147](#_Toc466892824)

[3.1.4.8.3 Complex Types 147](#_Toc466892825)

[3.1.4.8.4 Simple Types 147](#_Toc466892826)

[3.1.4.8.5 Attributes 147](#_Toc466892827)

[3.1.4.8.6 Groups 147](#_Toc466892828)

[3.1.4.8.7 Attribute Groups 147](#_Toc466892829)

[3.1.4.9 CopyAclAcrossChildren 147](#_Toc466892830)

[3.1.4.9.1 Messages 149](#_Toc466892831)

[3.1.4.9.1.1 BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage 149](#_Toc466892832)

[3.1.4.9.1.2 BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage 149](#_Toc466892833)

[3.1.4.9.2 Elements 149](#_Toc466892834)

[3.1.4.9.2.1 CopyAclAcrossChildren 150](#_Toc466892835)

[3.1.4.9.2.2 CopyAclAcrossChildrenResponse 150](#_Toc466892836)

[3.1.4.9.3 Complex Types 150](#_Toc466892837)

[3.1.4.9.4 Simple Types 150](#_Toc466892838)

[3.1.4.9.5 Attributes 150](#_Toc466892839)

[3.1.4.9.6 Groups 150](#_Toc466892840)

[3.1.4.9.7 Attribute Groups 150](#_Toc466892841)

[3.1.4.10 CopyAclAcrossChildrenForSetting 150](#_Toc466892842)

[3.1.4.10.1 Messages 152](#_Toc466892843)

[3.1.4.10.1.1 BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage 152](#_Toc466892844)

[3.1.4.10.1.2 BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage 153](#_Toc466892845)

[3.1.4.10.2 Elements 153](#_Toc466892846)

[3.1.4.10.2.1 CopyAclAcrossChildrenForSetting 153](#_Toc466892847)

[3.1.4.10.2.2 CopyAclAcrossChildrenForSettingResponse 153](#_Toc466892848)

[3.1.4.10.3 Complex Types 153](#_Toc466892849)

[3.1.4.10.4 Simple Types 154](#_Toc466892850)

[3.1.4.10.5 Attributes 154](#_Toc466892851)

[3.1.4.10.6 Groups 154](#_Toc466892852)

[3.1.4.10.7 Attribute Groups 154](#_Toc466892853)

[3.1.4.11 CopyAclToSetting 154](#_Toc466892854)

[3.1.4.11.1 Messages 155](#_Toc466892855)

[3.1.4.11.1.1 BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage 156](#_Toc466892856)

[3.1.4.11.1.2 BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage 156](#_Toc466892857)

[3.1.4.11.2 Elements 156](#_Toc466892858)

[3.1.4.11.2.1 CopyAclToSetting 156](#_Toc466892859)

[3.1.4.11.2.2 CopyAclToSettingResponse 156](#_Toc466892860)

[3.1.4.11.3 Complex Types 157](#_Toc466892861)

[3.1.4.11.4 Simple Types 157](#_Toc466892862)

[3.1.4.11.5 Attributes 157](#_Toc466892863)

[3.1.4.11.6 Groups 157](#_Toc466892864)

[3.1.4.11.7 Attribute Groups 157](#_Toc466892865)

[3.1.4.12 Deactivate 157](#_Toc466892866)

[3.1.4.12.1 Messages 159](#_Toc466892867)

[3.1.4.12.1.1 BusinessDataCatalogSharedService\_Deactivate\_InputMessage 160](#_Toc466892868)

[3.1.4.12.1.2 BusinessDataCatalogSharedService\_Deactivate\_OutputMessage 160](#_Toc466892869)

[3.1.4.12.2 Elements 160](#_Toc466892870)

[3.1.4.12.2.1 Deactivate 160](#_Toc466892871)

[3.1.4.12.2.2 DeactivateResponse 160](#_Toc466892872)

[3.1.4.12.3 Complex Types 161](#_Toc466892873)

[3.1.4.12.4 Simple Types 161](#_Toc466892874)

[3.1.4.12.5 Attributes 161](#_Toc466892875)

[3.1.4.12.6 Groups 161](#_Toc466892876)

[3.1.4.12.7 Attribute Groups 161](#_Toc466892877)

[3.1.4.13 Delete 161](#_Toc466892878)

[3.1.4.13.1 Messages 164](#_Toc466892879)

[3.1.4.13.1.1 BusinessDataCatalogSharedService\_Delete\_InputMessage 164](#_Toc466892880)

[3.1.4.13.1.2 BusinessDataCatalogSharedService\_Delete\_OutputMessage 164](#_Toc466892881)

[3.1.4.13.2 Elements 164](#_Toc466892882)

[3.1.4.13.2.1 Delete 164](#_Toc466892883)

[3.1.4.13.2.2 DeleteResponse 165](#_Toc466892884)

[3.1.4.13.3 Complex Types 165](#_Toc466892885)

[3.1.4.13.4 Simple Types 165](#_Toc466892886)

[3.1.4.13.5 Attributes 165](#_Toc466892887)

[3.1.4.13.6 Groups 165](#_Toc466892888)

[3.1.4.13.7 Attribute Groups 165](#_Toc466892889)

[3.1.4.14 DeleteAssociationReferenceFromAssociationGroup 165](#_Toc466892890)

[3.1.4.14.1 Messages 168](#_Toc466892891)

[3.1.4.14.1.1 BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage 168](#_Toc466892892)

[3.1.4.14.1.2 BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage 168](#_Toc466892893)

[3.1.4.14.2 Elements 168](#_Toc466892894)

[3.1.4.14.2.1 DeleteAssociationReferenceFromAssociationGroup 169](#_Toc466892895)

[3.1.4.14.2.2 DeleteAssociationReferenceFromAssociationGroupResponse 169](#_Toc466892896)

[3.1.4.14.3 Complex Types 169](#_Toc466892897)

[3.1.4.14.4 Simple Types 169](#_Toc466892898)

[3.1.4.14.5 Attributes 169](#_Toc466892899)

[3.1.4.14.6 Groups 169](#_Toc466892900)

[3.1.4.14.7 Attribute Groups 169](#_Toc466892901)

[3.1.4.15 DeleteDefaultValueForTypeDescriptor 169](#_Toc466892902)

[3.1.4.15.1 Messages 171](#_Toc466892903)

[3.1.4.15.1.1 BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage 171](#_Toc466892904)

[3.1.4.15.1.2 BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage 172](#_Toc466892905)

[3.1.4.15.2 Elements 172](#_Toc466892906)

[3.1.4.15.2.1 DeleteDefaultValueForTypeDescriptor 172](#_Toc466892907)

[3.1.4.15.2.2 DeleteDefaultValueForTypeDescriptorResponse 172](#_Toc466892908)

[3.1.4.15.3 Complex Types 173](#_Toc466892909)

[3.1.4.15.4 Simple Types 173](#_Toc466892910)

[3.1.4.15.5 Attributes 173](#_Toc466892911)

[3.1.4.15.6 Groups 173](#_Toc466892912)

[3.1.4.15.7 Attribute Groups 173](#_Toc466892913)

[3.1.4.16 DeleteNoCascade 173](#_Toc466892914)

[3.1.4.16.1 Messages 175](#_Toc466892915)

[3.1.4.16.1.1 BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage 176](#_Toc466892916)

[3.1.4.16.1.2 BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage 176](#_Toc466892917)

[3.1.4.16.2 Elements 176](#_Toc466892918)

[3.1.4.16.2.1 DeleteNoCascade 176](#_Toc466892919)

[3.1.4.16.2.2 DeleteNoCascadeResponse 176](#_Toc466892920)

[3.1.4.16.3 Complex Types 177](#_Toc466892921)

[3.1.4.16.4 Simple Types 177](#_Toc466892922)

[3.1.4.16.5 Attributes 177](#_Toc466892923)

[3.1.4.16.6 Groups 177](#_Toc466892924)

[3.1.4.16.7 Attribute Groups 177](#_Toc466892925)

[3.1.4.17 DeleteProxyAssemblyForLobSystem 177](#_Toc466892926)

[3.1.4.17.1 Messages 178](#_Toc466892927)

[3.1.4.17.1.1 BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage 179](#_Toc466892928)

[3.1.4.17.1.2 BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage 179](#_Toc466892929)

[3.1.4.17.2 Elements 179](#_Toc466892930)

[3.1.4.17.2.1 DeleteProxyAssemblyForLobSystem 179](#_Toc466892931)

[3.1.4.17.2.2 DeleteProxyAssemblyForLobSystemResponse 180](#_Toc466892932)

[3.1.4.17.3 Complex Types 180](#_Toc466892933)

[3.1.4.17.4 Simple Types 180](#_Toc466892934)

[3.1.4.17.5 Attributes 180](#_Toc466892935)

[3.1.4.17.6 Groups 180](#_Toc466892936)

[3.1.4.17.7 Attribute Groups 180](#_Toc466892937)

[3.1.4.18 EntityCreate 180](#_Toc466892938)

[3.1.4.18.1 Messages 182](#_Toc466892939)

[3.1.4.18.1.1 BusinessDataCatalogSharedService\_EntityCreate\_InputMessage 182](#_Toc466892940)

[3.1.4.18.1.2 BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage 182](#_Toc466892941)

[3.1.4.18.2 Elements 182](#_Toc466892942)

[3.1.4.18.2.1 EntityCreate 183](#_Toc466892943)

[3.1.4.18.2.2 EntityCreateResponse 183](#_Toc466892944)

[3.1.4.18.3 Complex Types 183](#_Toc466892945)

[3.1.4.18.4 Simple Types 184](#_Toc466892946)

[3.1.4.18.5 Attributes 184](#_Toc466892947)

[3.1.4.18.6 Groups 184](#_Toc466892948)

[3.1.4.18.7 Attribute Groups 184](#_Toc466892949)

[3.1.4.19 ExportPackage 184](#_Toc466892950)

[3.1.4.19.1 Messages 185](#_Toc466892951)

[3.1.4.19.1.1 BusinessDataCatalogSharedService\_ExportPackage\_InputMessage 186](#_Toc466892952)

[3.1.4.19.1.2 BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage 186](#_Toc466892953)

[3.1.4.19.2 Elements 186](#_Toc466892954)

[3.1.4.19.2.1 ExportPackage 186](#_Toc466892955)

[3.1.4.19.2.2 ExportPackageResponse 187](#_Toc466892956)

[3.1.4.19.3 Complex Types 187](#_Toc466892957)

[3.1.4.19.4 Simple Types 187](#_Toc466892958)

[3.1.4.19.5 Attributes 187](#_Toc466892959)

[3.1.4.19.6 Groups 187](#_Toc466892960)

[3.1.4.19.7 Attribute Groups 188](#_Toc466892961)

[3.1.4.20 GenerateProxyAssemblyForLobSystem 188](#_Toc466892962)

[3.1.4.20.1 Messages 189](#_Toc466892963)

[3.1.4.20.1.1 BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage 189](#_Toc466892964)

[3.1.4.20.1.2 BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage 190](#_Toc466892965)

[3.1.4.20.2 Elements 190](#_Toc466892966)

[3.1.4.20.2.1 GenerateProxyAssemblyForLobSystem 190](#_Toc466892967)

[3.1.4.20.2.2 GenerateProxyAssemblyForLobSystemResponse 190](#_Toc466892968)

[3.1.4.20.3 Complex Types 190](#_Toc466892969)

[3.1.4.20.4 Simple Types 190](#_Toc466892970)

[3.1.4.20.5 Attributes 191](#_Toc466892971)

[3.1.4.20.6 Groups 191](#_Toc466892972)

[3.1.4.20.7 Attribute Groups 191](#_Toc466892973)

[3.1.4.21 GetAccessControlEntries 191](#_Toc466892974)

[3.1.4.21.1 Messages 192](#_Toc466892975)

[3.1.4.21.1.1 BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage 193](#_Toc466892976)

[3.1.4.21.1.2 BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage 193](#_Toc466892977)

[3.1.4.21.2 Elements 193](#_Toc466892978)

[3.1.4.21.2.1 GetAccessControlEntries 193](#_Toc466892979)

[3.1.4.21.2.2 GetAccessControlEntriesResponse 193](#_Toc466892980)

[3.1.4.21.3 Complex Types 194](#_Toc466892981)

[3.1.4.21.4 Simple Types 194](#_Toc466892982)

[3.1.4.21.5 Attributes 194](#_Toc466892983)

[3.1.4.21.6 Groups 194](#_Toc466892984)

[3.1.4.21.7 Attribute Groups 194](#_Toc466892985)

[3.1.4.22 GetActionById 194](#_Toc466892986)

[3.1.4.22.1 Messages 195](#_Toc466892987)

[3.1.4.22.1.1 BusinessDataCatalogSharedService\_GetActionById\_InputMessage 196](#_Toc466892988)

[3.1.4.22.1.2 BusinessDataCatalogSharedService\_GetActionById\_OutputMessage 196](#_Toc466892989)

[3.1.4.22.2 Elements 196](#_Toc466892990)

[3.1.4.22.2.1 GetActionById 196](#_Toc466892991)

[3.1.4.22.2.2 GetActionByIdResponse 196](#_Toc466892992)

[3.1.4.22.3 Complex Types 197](#_Toc466892993)

[3.1.4.22.4 Simple Types 197](#_Toc466892994)

[3.1.4.22.5 Attributes 197](#_Toc466892995)

[3.1.4.22.6 Groups 197](#_Toc466892996)

[3.1.4.22.7 Attribute Groups 197](#_Toc466892997)

[3.1.4.23 GetActionParameterById 197](#_Toc466892998)

[3.1.4.23.1 Messages 198](#_Toc466892999)

[3.1.4.23.1.1 BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage 199](#_Toc466893000)

[3.1.4.23.1.2 BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage 199](#_Toc466893001)

[3.1.4.23.2 Elements 199](#_Toc466893002)

[3.1.4.23.2.1 GetActionParameterById 199](#_Toc466893003)

[3.1.4.23.2.2 GetActionParameterByIdResponse 200](#_Toc466893004)

[3.1.4.23.3 Complex Types 200](#_Toc466893005)

[3.1.4.23.4 Simple Types 200](#_Toc466893006)

[3.1.4.23.5 Attributes 200](#_Toc466893007)

[3.1.4.23.6 Groups 200](#_Toc466893008)

[3.1.4.23.7 Attribute Groups 200](#_Toc466893009)

[3.1.4.24 GetActionParametersForAction 200](#_Toc466893010)

[3.1.4.24.1 Messages 202](#_Toc466893011)

[3.1.4.24.1.1 BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage 202](#_Toc466893012)

[3.1.4.24.1.2 BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage 202](#_Toc466893013)

[3.1.4.24.2 Elements 202](#_Toc466893014)

[3.1.4.24.2.1 GetActionParametersForAction 202](#_Toc466893015)

[3.1.4.24.2.2 GetActionParametersForActionResponse 203](#_Toc466893016)

[3.1.4.24.3 Complex Types 203](#_Toc466893017)

[3.1.4.24.3.1 ArrayOfActionParameterStruct 203](#_Toc466893018)

[3.1.4.24.4 Simple Types 204](#_Toc466893019)

[3.1.4.24.5 Attributes 204](#_Toc466893020)

[3.1.4.24.6 Groups 204](#_Toc466893021)

[3.1.4.24.7 Attribute Groups 204](#_Toc466893022)

[3.1.4.25 GetActionsForEntity 204](#_Toc466893023)

[3.1.4.25.1 Messages 205](#_Toc466893024)

[3.1.4.25.1.1 BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage 205](#_Toc466893025)

[3.1.4.25.1.2 BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage 206](#_Toc466893026)

[3.1.4.25.2 Elements 206](#_Toc466893027)

[3.1.4.25.2.1 GetActionsForEntity 206](#_Toc466893028)

[3.1.4.25.2.2 GetActionsForEntityResponse 206](#_Toc466893029)

[3.1.4.25.3 Complex Types 206](#_Toc466893030)

[3.1.4.25.3.1 ArrayOfActionStruct 207](#_Toc466893031)

[3.1.4.25.4 Simple Types 207](#_Toc466893032)

[3.1.4.25.5 Attributes 207](#_Toc466893033)

[3.1.4.25.6 Groups 207](#_Toc466893034)

[3.1.4.25.7 Attribute Groups 207](#_Toc466893035)

[3.1.4.26 GetAllLocalizedNames 207](#_Toc466893036)

[3.1.4.26.1 Messages 208](#_Toc466893037)

[3.1.4.26.1.1 BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage 209](#_Toc466893038)

[3.1.4.26.1.2 BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage 209](#_Toc466893039)

[3.1.4.26.2 Elements 209](#_Toc466893040)

[3.1.4.26.2.1 GetAllLocalizedNames 209](#_Toc466893041)

[3.1.4.26.2.2 GetAllLocalizedNamesResponse 210](#_Toc466893042)

[3.1.4.26.3 Complex Types 210](#_Toc466893043)

[3.1.4.26.4 Simple Types 210](#_Toc466893044)

[3.1.4.26.5 Attributes 210](#_Toc466893045)

[3.1.4.26.6 Groups 210](#_Toc466893046)

[3.1.4.26.7 Attribute Groups 211](#_Toc466893047)

[3.1.4.27 GetAllLocalizedNamesForMetadataObjectStruct 211](#_Toc466893048)

[3.1.4.27.1 Messages 212](#_Toc466893049)

[3.1.4.27.1.1 BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage 212](#_Toc466893050)

[3.1.4.27.1.2 BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage 213](#_Toc466893051)

[3.1.4.27.2 Elements 213](#_Toc466893052)

[3.1.4.27.2.1 GetAllLocalizedNamesForMetadataObjectStruct 213](#_Toc466893053)

[3.1.4.27.2.2 GetAllLocalizedNamesForMetadataObjectStructResponse 214](#_Toc466893054)

[3.1.4.27.3 Complex Types 214](#_Toc466893055)

[3.1.4.27.4 Simple Types 214](#_Toc466893056)

[3.1.4.27.5 Attributes 214](#_Toc466893057)

[3.1.4.27.6 Groups 214](#_Toc466893058)

[3.1.4.27.7 Attribute Groups 214](#_Toc466893059)

[3.1.4.28 GetAllPartitionIds 214](#_Toc466893060)

[3.1.4.28.1 Messages 215](#_Toc466893061)

[3.1.4.28.1.1 BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage 215](#_Toc466893062)

[3.1.4.28.1.2 BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage 215](#_Toc466893063)

[3.1.4.28.2 Elements 216](#_Toc466893064)

[3.1.4.28.2.1 GetAllPartitionIds 216](#_Toc466893065)

[3.1.4.28.2.2 GetAllPartitionIdsResponse 216](#_Toc466893066)

[3.1.4.28.3 Complex Types 216](#_Toc466893067)

[3.1.4.28.4 Simple Types 216](#_Toc466893068)

[3.1.4.28.5 Attributes 216](#_Toc466893069)

[3.1.4.28.6 Groups 216](#_Toc466893070)

[3.1.4.28.7 Attribute Groups 216](#_Toc466893071)

[3.1.4.29 GetAllProperties 217](#_Toc466893072)

[3.1.4.29.1 Messages 218](#_Toc466893073)

[3.1.4.29.1.1 BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage 218](#_Toc466893074)

[3.1.4.29.1.2 BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage 218](#_Toc466893075)

[3.1.4.29.2 Elements 218](#_Toc466893076)

[3.1.4.29.2.1 GetAllProperties 219](#_Toc466893077)

[3.1.4.29.2.2 GetAllPropertiesResponse 219](#_Toc466893078)

[3.1.4.29.3 Complex Types 219](#_Toc466893079)

[3.1.4.29.4 Simple Types 220](#_Toc466893080)

[3.1.4.29.5 Attributes 220](#_Toc466893081)

[3.1.4.29.6 Groups 220](#_Toc466893082)

[3.1.4.29.7 Attribute Groups 220](#_Toc466893083)

[3.1.4.30 GetAllPropertiesForMetadataObjectStruct 220](#_Toc466893084)

[3.1.4.30.1 Messages 221](#_Toc466893085)

[3.1.4.30.1.1 BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage 222](#_Toc466893086)

[3.1.4.30.1.2 BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage 222](#_Toc466893087)

[3.1.4.30.2 Elements 222](#_Toc466893088)

[3.1.4.30.2.1 GetAllPropertiesForMetadataObjectStruct 222](#_Toc466893089)

[3.1.4.30.2.2 GetAllPropertiesForMetadataObjectStructResponse 223](#_Toc466893090)

[3.1.4.30.3 Complex Types 223](#_Toc466893091)

[3.1.4.30.4 Simple Types 223](#_Toc466893092)

[3.1.4.30.5 Attributes 223](#_Toc466893093)

[3.1.4.30.6 Groups 223](#_Toc466893094)

[3.1.4.30.7 Attribute Groups 223](#_Toc466893095)

[3.1.4.31 GetAssociationById 223](#_Toc466893096)

[3.1.4.31.1 Messages 225](#_Toc466893097)

[3.1.4.31.1.1 BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage 225](#_Toc466893098)

[3.1.4.31.1.2 BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage 225](#_Toc466893099)

[3.1.4.31.2 Elements 225](#_Toc466893100)

[3.1.4.31.2.1 GetAssociationById 225](#_Toc466893101)

[3.1.4.31.2.2 GetAssociationByIdResponse 226](#_Toc466893102)

[3.1.4.31.3 Complex Types 226](#_Toc466893103)

[3.1.4.31.4 Simple Types 226](#_Toc466893104)

[3.1.4.31.5 Attributes 226](#_Toc466893105)

[3.1.4.31.6 Groups 226](#_Toc466893106)

[3.1.4.31.7 Attribute Groups 226](#_Toc466893107)

[3.1.4.32 GetAssociationGroupById 227](#_Toc466893108)

[3.1.4.32.1 Messages 228](#_Toc466893109)

[3.1.4.32.1.1 BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage 228](#_Toc466893110)

[3.1.4.32.1.2 BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage 228](#_Toc466893111)

[3.1.4.32.2 Elements 228](#_Toc466893112)

[3.1.4.32.2.1 GetAssociationGroupById 229](#_Toc466893113)

[3.1.4.32.2.2 GetAssociationGroupByIdResponse 229](#_Toc466893114)

[3.1.4.32.3 Complex Types 229](#_Toc466893115)

[3.1.4.32.4 Simple Types 229](#_Toc466893116)

[3.1.4.32.5 Attributes 230](#_Toc466893117)

[3.1.4.32.6 Groups 230](#_Toc466893118)

[3.1.4.32.7 Attribute Groups 230](#_Toc466893119)

[3.1.4.33 GetAssociationGroupsForEntity 230](#_Toc466893120)

[3.1.4.33.1 Messages 231](#_Toc466893121)

[3.1.4.33.1.1 BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage 231](#_Toc466893122)

[3.1.4.33.1.2 BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage 232](#_Toc466893123)

[3.1.4.33.2 Elements 232](#_Toc466893124)

[3.1.4.33.2.1 GetAssociationGroupsForEntity 232](#_Toc466893125)

[3.1.4.33.2.2 GetAssociationGroupsForEntityResponse 232](#_Toc466893126)

[3.1.4.33.3 Complex Types 233](#_Toc466893127)

[3.1.4.33.3.1 ArrayOfAssociationGroupStruct 233](#_Toc466893128)

[3.1.4.33.4 Simple Types 233](#_Toc466893129)

[3.1.4.33.5 Attributes 233](#_Toc466893130)

[3.1.4.33.6 Groups 233](#_Toc466893131)

[3.1.4.33.7 Attribute Groups 233](#_Toc466893132)

[3.1.4.34 GetAssociationMembersInRole 233](#_Toc466893133)

[3.1.4.34.1 Messages 235](#_Toc466893134)

[3.1.4.34.1.1 BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage 235](#_Toc466893135)

[3.1.4.34.1.2 BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage 235](#_Toc466893136)

[3.1.4.34.2 Elements 235](#_Toc466893137)

[3.1.4.34.2.1 GetAssociationMembersInRole 236](#_Toc466893138)

[3.1.4.34.2.2 GetAssociationMembersInRoleResponse 236](#_Toc466893139)

[3.1.4.34.3 Complex Types 236](#_Toc466893140)

[3.1.4.34.3.1 ArrayOfAssociationMemberStruct 237](#_Toc466893141)

[3.1.4.34.3.2 AssociationMemberStruct 237](#_Toc466893142)

[3.1.4.34.4 Simple Types 238](#_Toc466893143)

[3.1.4.34.5 Attributes 238](#_Toc466893144)

[3.1.4.34.6 Groups 238](#_Toc466893145)

[3.1.4.34.7 Attribute Groups 238](#_Toc466893146)

[3.1.4.35 GetAssociationReferencesForAssociationGroup 238](#_Toc466893147)

[3.1.4.35.1 Messages 239](#_Toc466893148)

[3.1.4.35.1.1 BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage 240](#_Toc466893149)

[3.1.4.35.1.2 BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage 240](#_Toc466893150)

[3.1.4.35.2 Elements 240](#_Toc466893151)

[3.1.4.35.2.1 GetAssociationReferencesForAssociationGroup 240](#_Toc466893152)

[3.1.4.35.2.2 GetAssociationReferencesForAssociationGroupResponse 241](#_Toc466893153)

[3.1.4.35.3 Complex Types 241](#_Toc466893154)

[3.1.4.35.3.1 ArrayOfAssociationReferenceStruct 241](#_Toc466893155)

[3.1.4.35.4 Simple Types 241](#_Toc466893156)

[3.1.4.35.5 Attributes 242](#_Toc466893157)

[3.1.4.35.6 Groups 242](#_Toc466893158)

[3.1.4.35.7 Attribute Groups 242](#_Toc466893159)

[3.1.4.36 GetAssociationsForDataClass 242](#_Toc466893160)

[3.1.4.36.1 Messages 243](#_Toc466893161)

[3.1.4.36.1.1 BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage 243](#_Toc466893162)

[3.1.4.36.1.2 BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage 244](#_Toc466893163)

[3.1.4.36.2 Elements 244](#_Toc466893164)

[3.1.4.36.2.1 GetAssociationsForDataClass 244](#_Toc466893165)

[3.1.4.36.2.2 GetAssociationsForDataClassResponse 244](#_Toc466893166)

[3.1.4.36.3 Complex Types 245](#_Toc466893167)

[3.1.4.36.4 Simple Types 245](#_Toc466893168)

[3.1.4.36.5 Attributes 245](#_Toc466893169)

[3.1.4.36.6 Groups 245](#_Toc466893170)

[3.1.4.36.7 Attribute Groups 245](#_Toc466893171)

[3.1.4.37 GetAssociationsForEntityAndRole 245](#_Toc466893172)

[3.1.4.37.1 Messages 246](#_Toc466893173)

[3.1.4.37.1.1 BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage 247](#_Toc466893174)

[3.1.4.37.1.2 BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage 247](#_Toc466893175)

[3.1.4.37.2 Elements 247](#_Toc466893176)

[3.1.4.37.2.1 GetAssociationsForEntityAndRole 247](#_Toc466893177)

[3.1.4.37.2.2 GetAssociationsForEntityAndRoleResponse 248](#_Toc466893178)

[3.1.4.37.3 Complex Types 248](#_Toc466893179)

[3.1.4.37.4 Simple Types 248](#_Toc466893180)

[3.1.4.37.5 Attributes 248](#_Toc466893181)

[3.1.4.37.6 Groups 248](#_Toc466893182)

[3.1.4.37.7 Attribute Groups 249](#_Toc466893183)

[3.1.4.38 GetAssociationsForMethod 249](#_Toc466893184)

[3.1.4.38.1 Messages 250](#_Toc466893185)

[3.1.4.38.1.1 BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage 250](#_Toc466893186)

[3.1.4.38.1.2 BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage 250](#_Toc466893187)

[3.1.4.38.2 Elements 250](#_Toc466893188)

[3.1.4.38.2.1 GetAssociationsForMethod 251](#_Toc466893189)

[3.1.4.38.2.2 GetAssociationsForMethodResponse 251](#_Toc466893190)

[3.1.4.38.3 Complex Types 251](#_Toc466893191)

[3.1.4.38.4 Simple Types 251](#_Toc466893192)

[3.1.4.38.5 Attributes 252](#_Toc466893193)

[3.1.4.38.6 Groups 252](#_Toc466893194)

[3.1.4.38.7 Attribute Groups 252](#_Toc466893195)

[3.1.4.39 GetCacheInvalidationRecordsSince 252](#_Toc466893196)

[3.1.4.39.1 Messages 253](#_Toc466893197)

[3.1.4.39.1.1 BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage 253](#_Toc466893198)

[3.1.4.39.1.2 BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage 253](#_Toc466893199)

[3.1.4.39.2 Elements 254](#_Toc466893200)

[3.1.4.39.2.1 GetCacheInvalidationRecordsSince 254](#_Toc466893201)

[3.1.4.39.2.2 GetCacheInvalidationRecordsSinceResponse 254](#_Toc466893202)

[3.1.4.39.3 Complex Types 254](#_Toc466893203)

[3.1.4.39.3.1 ArrayOfCacheInvalidationRecordStruct 255](#_Toc466893204)

[3.1.4.39.3.2 CacheInvalidationRecordStruct 255](#_Toc466893205)

[3.1.4.39.4 Simple Types 257](#_Toc466893206)

[3.1.4.39.5 Attributes 257](#_Toc466893207)

[3.1.4.39.6 Groups 257](#_Toc466893208)

[3.1.4.39.7 Attribute Groups 257](#_Toc466893209)

[3.1.4.40 GetChildTypeDescriptorsForTypeDescriptor 257](#_Toc466893210)

[3.1.4.40.1 Messages 258](#_Toc466893211)

[3.1.4.40.1.1 BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage 258](#_Toc466893212)

[3.1.4.40.1.2 BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage 259](#_Toc466893213)

[3.1.4.40.2 Elements 259](#_Toc466893214)

[3.1.4.40.2.1 GetChildTypeDescriptorsForTypeDescriptor 259](#_Toc466893215)

[3.1.4.40.2.2 GetChildTypeDescriptorsForTypeDescriptorResponse 259](#_Toc466893216)

[3.1.4.40.3 Complex Types 260](#_Toc466893217)

[3.1.4.40.4 Simple Types 260](#_Toc466893218)

[3.1.4.40.5 Attributes 260](#_Toc466893219)

[3.1.4.40.6 Groups 260](#_Toc466893220)

[3.1.4.40.7 Attribute Groups 260](#_Toc466893221)

[3.1.4.41 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor 260](#_Toc466893222)

[3.1.4.41.1 Messages 262](#_Toc466893223)

[3.1.4.41.1.1 BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage 262](#_Toc466893224)

[3.1.4.41.1.2 BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage 262](#_Toc466893225)

[3.1.4.41.2 Elements 262](#_Toc466893226)

[3.1.4.41.2.1 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor 263](#_Toc466893227)

[3.1.4.41.2.2 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse 263](#_Toc466893228)

[3.1.4.41.3 Complex Types 263](#_Toc466893229)

[3.1.4.41.4 Simple Types 263](#_Toc466893230)

[3.1.4.41.5 Attributes 263](#_Toc466893231)

[3.1.4.41.6 Groups 263](#_Toc466893232)

[3.1.4.41.7 Attribute Groups 263](#_Toc466893233)

[3.1.4.42 GetDataClassById 264](#_Toc466893234)

[3.1.4.42.1 Messages 265](#_Toc466893235)

[3.1.4.42.1.1 BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage 265](#_Toc466893236)

[3.1.4.42.1.2 BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage 265](#_Toc466893237)

[3.1.4.42.2 Elements 265](#_Toc466893238)

[3.1.4.42.2.1 GetDataClassById 266](#_Toc466893239)

[3.1.4.42.2.2 GetDataClassByIdResponse 266](#_Toc466893240)

[3.1.4.42.3 Complex Types 266](#_Toc466893241)

[3.1.4.42.4 Simple Types 266](#_Toc466893242)

[3.1.4.42.5 Attributes 266](#_Toc466893243)

[3.1.4.42.6 Groups 266](#_Toc466893244)

[3.1.4.42.7 Attribute Groups 267](#_Toc466893245)

[3.1.4.43 GetDataClassesForSystem 267](#_Toc466893246)

[3.1.4.43.1 Messages 268](#_Toc466893247)

[3.1.4.43.1.1 BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage 268](#_Toc466893248)

[3.1.4.43.1.2 BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage 268](#_Toc466893249)

[3.1.4.43.2 Elements 268](#_Toc466893250)

[3.1.4.43.2.1 GetDataClassesForSystem 269](#_Toc466893251)

[3.1.4.43.2.2 GetDataClassesForSystemResponse 269](#_Toc466893252)

[3.1.4.43.3 Complex Types 269](#_Toc466893253)

[3.1.4.43.3.1 ArrayOfDataClassStruct 270](#_Toc466893254)

[3.1.4.43.4 Simple Types 270](#_Toc466893255)

[3.1.4.43.5 Attributes 270](#_Toc466893256)

[3.1.4.43.6 Groups 270](#_Toc466893257)

[3.1.4.43.7 Attribute Groups 270](#_Toc466893258)

[3.1.4.44 GetDefaultValuesForTypeDescriptor 270](#_Toc466893259)

[3.1.4.44.1 Messages 271](#_Toc466893260)

[3.1.4.44.1.1 BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage 272](#_Toc466893261)

[3.1.4.44.1.2 BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage 272](#_Toc466893262)

[3.1.4.44.2 Elements 272](#_Toc466893263)

[3.1.4.44.2.1 GetDefaultValuesForTypeDescriptor 272](#_Toc466893264)

[3.1.4.44.2.2 GetDefaultValuesForTypeDescriptorResponse 273](#_Toc466893265)

[3.1.4.44.3 Complex Types 273](#_Toc466893266)

[3.1.4.44.3.1 ArrayOfDefaultValueStruct 273](#_Toc466893267)

[3.1.4.44.4 Simple Types 273](#_Toc466893268)

[3.1.4.44.5 Attributes 273](#_Toc466893269)

[3.1.4.44.6 Groups 274](#_Toc466893270)

[3.1.4.44.7 Attribute Groups 274](#_Toc466893271)

[3.1.4.45 GetEntitiesForAssociationAndRole 274](#_Toc466893272)

[3.1.4.45.1 Messages 275](#_Toc466893273)

[3.1.4.45.1.1 BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage 275](#_Toc466893274)

[3.1.4.45.1.2 BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage 276](#_Toc466893275)

[3.1.4.45.2 Elements 276](#_Toc466893276)

[3.1.4.45.2.1 GetEntitiesForAssociationAndRole 276](#_Toc466893277)

[3.1.4.45.2.2 GetEntitiesForAssociationAndRoleResponse 276](#_Toc466893278)

[3.1.4.45.3 Complex Types 277](#_Toc466893279)

[3.1.4.45.4 Simple Types 277](#_Toc466893280)

[3.1.4.45.5 Attributes 277](#_Toc466893281)

[3.1.4.45.6 Groups 277](#_Toc466893282)

[3.1.4.45.7 Attribute Groups 277](#_Toc466893283)

[3.1.4.46 GetEntitiesForSystem 277](#_Toc466893284)

[3.1.4.46.1 Messages 278](#_Toc466893285)

[3.1.4.46.1.1 BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage 279](#_Toc466893286)

[3.1.4.46.1.2 BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage 279](#_Toc466893287)

[3.1.4.46.2 Elements 279](#_Toc466893288)

[3.1.4.46.2.1 GetEntitiesForSystem 279](#_Toc466893289)

[3.1.4.46.2.2 GetEntitiesForSystemResponse 280](#_Toc466893290)

[3.1.4.46.3 Complex Types 280](#_Toc466893291)

[3.1.4.46.4 Simple Types 280](#_Toc466893292)

[3.1.4.46.5 Attributes 280](#_Toc466893293)

[3.1.4.46.6 Groups 280](#_Toc466893294)

[3.1.4.46.7 Attribute Groups 280](#_Toc466893295)

[3.1.4.47 GetEntitiesLikeNameAndNamespace 280](#_Toc466893296)

[3.1.4.47.1 Messages 282](#_Toc466893297)

[3.1.4.47.1.1 BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage 282](#_Toc466893298)

[3.1.4.47.1.2 BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage 282](#_Toc466893299)

[3.1.4.47.2 Elements 282](#_Toc466893300)

[3.1.4.47.2.1 GetEntitiesLikeNameAndNamespace 283](#_Toc466893301)

[3.1.4.47.2.2 GetEntitiesLikeNameAndNamespaceResponse 284](#_Toc466893302)

[3.1.4.47.3 Complex Types 284](#_Toc466893303)

[3.1.4.47.4 Simple Types 284](#_Toc466893304)

[3.1.4.47.5 Attributes 284](#_Toc466893305)

[3.1.4.47.6 Groups 284](#_Toc466893306)

[3.1.4.47.7 Attribute Groups 284](#_Toc466893307)

[3.1.4.48 GetEntitiesReferencedByModelId 284](#_Toc466893308)

[3.1.4.48.1 Messages 286](#_Toc466893309)

[3.1.4.48.1.1 BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage 286](#_Toc466893310)

[3.1.4.48.1.2 BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage 286](#_Toc466893311)

[3.1.4.48.2 Elements 286](#_Toc466893312)

[3.1.4.48.2.1 GetEntitiesReferencedByModelId 287](#_Toc466893313)

[3.1.4.48.2.2 GetEntitiesReferencedByModelIdResponse 287](#_Toc466893314)

[3.1.4.48.3 Complex Types 287](#_Toc466893315)

[3.1.4.48.4 Simple Types 288](#_Toc466893316)

[3.1.4.48.4.1 EntityConstants.EntitiesInModelQuery 288](#_Toc466893317)

[3.1.4.48.5 Attributes 288](#_Toc466893318)

[3.1.4.48.6 Groups 288](#_Toc466893319)

[3.1.4.48.7 Attribute Groups 288](#_Toc466893320)

[3.1.4.49 GetEntityById 288](#_Toc466893321)

[3.1.4.49.1 Messages 290](#_Toc466893322)

[3.1.4.49.1.1 BusinessDataCatalogSharedService\_GetEntityById\_InputMessage 290](#_Toc466893323)

[3.1.4.49.1.2 BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage 290](#_Toc466893324)

[3.1.4.49.2 Elements 290](#_Toc466893325)

[3.1.4.49.2.1 GetEntityById 290](#_Toc466893326)

[3.1.4.49.2.2 GetEntityByIdResponse 291](#_Toc466893327)

[3.1.4.49.3 Complex Types 291](#_Toc466893328)

[3.1.4.49.4 Simple Types 291](#_Toc466893329)

[3.1.4.49.5 Attributes 291](#_Toc466893330)

[3.1.4.49.6 Groups 291](#_Toc466893331)

[3.1.4.49.7 Attribute Groups 291](#_Toc466893332)

[3.1.4.50 GetEntityCount 292](#_Toc466893333)

[3.1.4.50.1 Messages 293](#_Toc466893334)

[3.1.4.50.1.1 BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage 293](#_Toc466893335)

[3.1.4.50.1.2 BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage 293](#_Toc466893336)

[3.1.4.50.2 Elements 293](#_Toc466893337)

[3.1.4.50.2.1 GetEntityCount 293](#_Toc466893338)

[3.1.4.50.2.2 GetEntityCountResponse 294](#_Toc466893339)

[3.1.4.50.3 Complex Types 294](#_Toc466893340)

[3.1.4.50.4 Simple Types 294](#_Toc466893341)

[3.1.4.50.5 Attributes 294](#_Toc466893342)

[3.1.4.50.6 Groups 294](#_Toc466893343)

[3.1.4.50.7 Attribute Groups 294](#_Toc466893344)

[3.1.4.51 GetEntityNameAndNamespacesForAssociationAndRole 294](#_Toc466893345)

[3.1.4.51.1 Messages 296](#_Toc466893346)

[3.1.4.51.1.1 BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage 296](#_Toc466893347)

[3.1.4.51.1.2 BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage 296](#_Toc466893348)

[3.1.4.51.2 Elements 296](#_Toc466893349)

[3.1.4.51.2.1 GetEntityNameAndNamespacesForAssociationAndRole 297](#_Toc466893350)

[3.1.4.51.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse 297](#_Toc466893351)

[3.1.4.51.3 Complex Types 298](#_Toc466893352)

[3.1.4.51.4 Simple Types 298](#_Toc466893353)

[3.1.4.51.5 Attributes 298](#_Toc466893354)

[3.1.4.51.6 Groups 298](#_Toc466893355)

[3.1.4.51.7 Attribute Groups 298](#_Toc466893356)

[3.1.4.52 GetEntityWithNameAndNamespace 298](#_Toc466893357)

[3.1.4.52.1 Messages 299](#_Toc466893358)

[3.1.4.52.1.1 BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage 300](#_Toc466893359)

[3.1.4.52.1.2 BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage 300](#_Toc466893360)

[3.1.4.52.2 Elements 300](#_Toc466893361)

[3.1.4.52.2.1 GetEntityWithNameAndNamespace 300](#_Toc466893362)

[3.1.4.52.2.2 GetEntityWithNameAndNamespaceResponse 301](#_Toc466893363)

[3.1.4.52.3 Complex Types 301](#_Toc466893364)

[3.1.4.52.4 Simple Types 301](#_Toc466893365)

[3.1.4.52.5 Attributes 301](#_Toc466893366)

[3.1.4.52.6 Groups 301](#_Toc466893367)

[3.1.4.52.7 Attribute Groups 301](#_Toc466893368)

[3.1.4.53 GetEntityWithNameAndNamespaceAndVersion 301](#_Toc466893369)

[3.1.4.53.1 Messages 303](#_Toc466893370)

[3.1.4.53.1.1 BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage 303](#_Toc466893371)

[3.1.4.53.1.2 BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage 303](#_Toc466893372)

[3.1.4.53.2 Elements 303](#_Toc466893373)

[3.1.4.53.2.1 GetEntityWithNameAndNamespaceAndVersion 304](#_Toc466893374)

[3.1.4.53.2.2 GetEntityWithNameAndNamespaceAndVersionResponse 304](#_Toc466893375)

[3.1.4.53.3 Complex Types 304](#_Toc466893376)

[3.1.4.53.4 Simple Types 305](#_Toc466893377)

[3.1.4.53.5 Attributes 305](#_Toc466893378)

[3.1.4.53.6 Groups 305](#_Toc466893379)

[3.1.4.53.7 Attribute Groups 305](#_Toc466893380)

[3.1.4.54 GetFieldTypeDescriptorsByMethodInstance 305](#_Toc466893381)

[3.1.4.54.1 Messages 306](#_Toc466893382)

[3.1.4.54.1.1 BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage 307](#_Toc466893383)

[3.1.4.54.1.2 BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage 307](#_Toc466893384)

[3.1.4.54.2 Elements 307](#_Toc466893385)

[3.1.4.54.2.1 GetFieldTypeDescriptorsByMethodInstance 307](#_Toc466893386)

[3.1.4.54.2.2 GetFieldTypeDescriptorsByMethodInstanceResponse 308](#_Toc466893387)

[3.1.4.54.3 Complex Types 308](#_Toc466893388)

[3.1.4.54.4 Simple Types 308](#_Toc466893389)

[3.1.4.54.5 Attributes 308](#_Toc466893390)

[3.1.4.54.6 Groups 308](#_Toc466893391)

[3.1.4.54.7 Attribute Groups 308](#_Toc466893392)

[3.1.4.55 GetFilterDescriptorById 308](#_Toc466893393)

[3.1.4.55.1 Messages 310](#_Toc466893394)

[3.1.4.55.1.1 BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage 310](#_Toc466893395)

[3.1.4.55.1.2 BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage 310](#_Toc466893396)

[3.1.4.55.2 Elements 310](#_Toc466893397)

[3.1.4.55.2.1 GetFilterDescriptorById 311](#_Toc466893398)

[3.1.4.55.2.2 GetFilterDescriptorByIdResponse 311](#_Toc466893399)

[3.1.4.55.3 Complex Types 311](#_Toc466893400)

[3.1.4.55.4 Simple Types 311](#_Toc466893401)

[3.1.4.55.5 Attributes 311](#_Toc466893402)

[3.1.4.55.6 Groups 311](#_Toc466893403)

[3.1.4.55.7 Attribute Groups 312](#_Toc466893404)

[3.1.4.56 GetFilterDescriptorsForMethod 312](#_Toc466893405)

[3.1.4.56.1 Messages 313](#_Toc466893406)

[3.1.4.56.1.1 BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage 313](#_Toc466893407)

[3.1.4.56.1.2 BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage 313](#_Toc466893408)

[3.1.4.56.2 Elements 313](#_Toc466893409)

[3.1.4.56.2.1 GetFilterDescriptorsForMethod 314](#_Toc466893410)

[3.1.4.56.2.2 GetFilterDescriptorsForMethodResponse 314](#_Toc466893411)

[3.1.4.56.3 Complex Types 314](#_Toc466893412)

[3.1.4.56.3.1 ArrayOfFilterDescriptorStruct 315](#_Toc466893413)

[3.1.4.56.4 Simple Types 315](#_Toc466893414)

[3.1.4.56.5 Attributes 315](#_Toc466893415)

[3.1.4.56.6 Groups 315](#_Toc466893416)

[3.1.4.56.7 Attribute Groups 315](#_Toc466893417)

[3.1.4.57 GetIdentifierById 315](#_Toc466893418)

[3.1.4.57.1 Messages 316](#_Toc466893419)

[3.1.4.57.1.1 BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage 317](#_Toc466893420)

[3.1.4.57.1.2 BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage 317](#_Toc466893421)

[3.1.4.57.2 Elements 317](#_Toc466893422)

[3.1.4.57.2.1 GetIdentifierById 317](#_Toc466893423)

[3.1.4.57.2.2 GetIdentifierByIdResponse 318](#_Toc466893424)

[3.1.4.57.3 Complex Types 318](#_Toc466893425)

[3.1.4.57.4 Simple Types 318](#_Toc466893426)

[3.1.4.57.5 Attributes 318](#_Toc466893427)

[3.1.4.57.6 Groups 318](#_Toc466893428)

[3.1.4.57.7 Attribute Groups 318](#_Toc466893429)

[3.1.4.58 GetIdentifiersForEntity 318](#_Toc466893430)

[3.1.4.58.1 Messages 319](#_Toc466893431)

[3.1.4.58.1.1 BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage 320](#_Toc466893432)

[3.1.4.58.1.2 BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage 320](#_Toc466893433)

[3.1.4.58.2 Elements 320](#_Toc466893434)

[3.1.4.58.2.1 GetIdentifiersForEntity 320](#_Toc466893435)

[3.1.4.58.2.2 GetIdentifiersForEntityResponse 321](#_Toc466893436)

[3.1.4.58.3 Complex Types 321](#_Toc466893437)

[3.1.4.58.3.1 ArrayOfIdentifierStruct 321](#_Toc466893438)

[3.1.4.58.4 Simple Types 321](#_Toc466893439)

[3.1.4.58.5 Attributes 322](#_Toc466893440)

[3.1.4.58.6 Groups 322](#_Toc466893441)

[3.1.4.58.7 Attribute Groups 322](#_Toc466893442)

[3.1.4.59 GetImportProgress 322](#_Toc466893443)

[3.1.4.59.1 Messages 322](#_Toc466893444)

[3.1.4.59.1.1 BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage 322](#_Toc466893445)

[3.1.4.59.1.2 BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage 323](#_Toc466893446)

[3.1.4.59.2 Elements 323](#_Toc466893447)

[3.1.4.59.2.1 GetImportProgress 323](#_Toc466893448)

[3.1.4.59.2.2 GetImportProgressResponse 323](#_Toc466893449)

[3.1.4.59.3 Complex Types 324](#_Toc466893450)

[3.1.4.59.4 Simple Types 324](#_Toc466893451)

[3.1.4.59.5 Attributes 324](#_Toc466893452)

[3.1.4.59.6 Groups 324](#_Toc466893453)

[3.1.4.59.7 Attribute Groups 324](#_Toc466893454)

[3.1.4.60 GetLevelForTypeDescriptor 324](#_Toc466893455)

[3.1.4.60.1 Messages 325](#_Toc466893456)

[3.1.4.60.1.1 BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage 326](#_Toc466893457)

[3.1.4.60.1.2 BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage 326](#_Toc466893458)

[3.1.4.60.2 Elements 326](#_Toc466893459)

[3.1.4.60.2.1 GetLevelForTypeDescriptor 326](#_Toc466893460)

[3.1.4.60.2.2 GetLevelForTypeDescriptorResponse 327](#_Toc466893461)

[3.1.4.60.3 Complex Types 327](#_Toc466893462)

[3.1.4.60.4 Simple Types 327](#_Toc466893463)

[3.1.4.60.5 Attributes 327](#_Toc466893464)

[3.1.4.60.6 Groups 327](#_Toc466893465)

[3.1.4.60.7 Attribute Groups 327](#_Toc466893466)

[3.1.4.61 GetLobSystemAllAssembliesBytes 327](#_Toc466893467)

[3.1.4.61.1 Messages 329](#_Toc466893468)

[3.1.4.61.1.1 BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage 329](#_Toc466893469)

[3.1.4.61.1.2 BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage 329](#_Toc466893470)

[3.1.4.61.2 Elements 329](#_Toc466893471)

[3.1.4.61.2.1 GetLobSystemAllAssembliesBytes 330](#_Toc466893472)

[3.1.4.61.2.2 GetLobSystemAllAssembliesBytesResponse 330](#_Toc466893473)

[3.1.4.61.3 Complex Types 330](#_Toc466893474)

[3.1.4.61.4 Simple Types 330](#_Toc466893475)

[3.1.4.61.5 Attributes 330](#_Toc466893476)

[3.1.4.61.6 Groups 331](#_Toc466893477)

[3.1.4.61.7 Attribute Groups 331](#_Toc466893478)

[3.1.4.62 GetLobSystemById 331](#_Toc466893479)

[3.1.4.62.1 Messages 332](#_Toc466893480)

[3.1.4.62.1.1 BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage 333](#_Toc466893481)

[3.1.4.62.1.2 BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage 333](#_Toc466893482)

[3.1.4.62.2 Elements 333](#_Toc466893483)

[3.1.4.62.2.1 GetLobSystemById 333](#_Toc466893484)

[3.1.4.62.2.2 GetLobSystemByIdResponse 333](#_Toc466893485)

[3.1.4.62.3 Complex Types 334](#_Toc466893486)

[3.1.4.62.4 Simple Types 334](#_Toc466893487)

[3.1.4.62.5 Attributes 334](#_Toc466893488)

[3.1.4.62.6 Groups 334](#_Toc466893489)

[3.1.4.62.7 Attribute Groups 334](#_Toc466893490)

[3.1.4.63 GetLobSystemByName 334](#_Toc466893491)

[3.1.4.63.1 Messages 336](#_Toc466893492)

[3.1.4.63.1.1 BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage 336](#_Toc466893493)

[3.1.4.63.1.2 BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage 336](#_Toc466893494)

[3.1.4.63.2 Elements 336](#_Toc466893495)

[3.1.4.63.2.1 GetLobSystemByName 337](#_Toc466893496)

[3.1.4.63.2.2 GetLobSystemByNameResponse 337](#_Toc466893497)

[3.1.4.63.3 Complex Types 337](#_Toc466893498)

[3.1.4.63.4 Simple Types 337](#_Toc466893499)

[3.1.4.63.5 Attributes 337](#_Toc466893500)

[3.1.4.63.6 Groups 338](#_Toc466893501)

[3.1.4.63.7 Attribute Groups 338](#_Toc466893502)

[3.1.4.64 GetLobSystemDataByLobSystem 338](#_Toc466893503)

[3.1.4.64.1 Messages 339](#_Toc466893504)

[3.1.4.64.1.1 BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage 339](#_Toc466893505)

[3.1.4.64.1.2 BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage 340](#_Toc466893506)

[3.1.4.64.2 Elements 340](#_Toc466893507)

[3.1.4.64.2.1 GetLobSystemDataByLobSystem 340](#_Toc466893508)

[3.1.4.64.2.2 GetLobSystemDataByLobSystemResponse 340](#_Toc466893509)

[3.1.4.64.3 Complex Types 341](#_Toc466893510)

[3.1.4.64.4 Simple Types 341](#_Toc466893511)

[3.1.4.64.5 Attributes 341](#_Toc466893512)

[3.1.4.64.6 Groups 341](#_Toc466893513)

[3.1.4.64.7 Attribute Groups 341](#_Toc466893514)

[3.1.4.65 GetLobSystemInstanceById 341](#_Toc466893515)

[3.1.4.65.1 Messages 343](#_Toc466893516)

[3.1.4.65.1.1 BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage 343](#_Toc466893517)

[3.1.4.65.1.2 BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage 344](#_Toc466893518)

[3.1.4.65.2 Elements 344](#_Toc466893519)

[3.1.4.65.2.1 GetLobSystemInstanceById 344](#_Toc466893520)

[3.1.4.65.2.2 GetLobSystemInstanceByIdResponse 344](#_Toc466893521)

[3.1.4.65.3 Complex Types 345](#_Toc466893522)

[3.1.4.65.4 Simple Types 345](#_Toc466893523)

[3.1.4.65.5 Attributes 345](#_Toc466893524)

[3.1.4.65.6 Groups 345](#_Toc466893525)

[3.1.4.65.7 Attribute Groups 345](#_Toc466893526)

[3.1.4.66 GetLobSystemInstancesForLobSystem 345](#_Toc466893527)

[3.1.4.66.1 Messages 346](#_Toc466893528)

[3.1.4.66.1.1 BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage 347](#_Toc466893529)

[3.1.4.66.1.2 BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage 347](#_Toc466893530)

[3.1.4.66.2 Elements 347](#_Toc466893531)

[3.1.4.66.2.1 GetLobSystemInstancesForLobSystem 347](#_Toc466893532)

[3.1.4.66.2.2 GetLobSystemInstancesForLobSystemResponse 348](#_Toc466893533)

[3.1.4.66.3 Complex Types 348](#_Toc466893534)

[3.1.4.66.3.1 ArrayOfLobSystemInstanceStruct 348](#_Toc466893535)

[3.1.4.66.4 Simple Types 349](#_Toc466893536)

[3.1.4.66.5 Attributes 349](#_Toc466893537)

[3.1.4.66.6 Groups 349](#_Toc466893538)

[3.1.4.66.7 Attribute Groups 349](#_Toc466893539)

[3.1.4.67 GetLobSystemProxyAssemblyBytesByLobSystemId 349](#_Toc466893540)

[3.1.4.67.1 Messages 350](#_Toc466893541)

[3.1.4.67.1.1 BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage 351](#_Toc466893542)

[3.1.4.67.1.2 BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage 351](#_Toc466893543)

[3.1.4.67.2 Elements 351](#_Toc466893544)

[3.1.4.67.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId 351](#_Toc466893545)

[3.1.4.67.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse 352](#_Toc466893546)

[3.1.4.67.3 Complex Types 352](#_Toc466893547)

[3.1.4.67.4 Simple Types 352](#_Toc466893548)

[3.1.4.67.5 Attributes 352](#_Toc466893549)

[3.1.4.67.6 Groups 352](#_Toc466893550)

[3.1.4.67.7 Attribute Groups 352](#_Toc466893551)

[3.1.4.68 GetLobSystemsLikeName 353](#_Toc466893552)

[3.1.4.68.1 Messages 354](#_Toc466893553)

[3.1.4.68.1.1 BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage 354](#_Toc466893554)

[3.1.4.68.1.2 BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage 354](#_Toc466893555)

[3.1.4.68.2 Elements 355](#_Toc466893556)

[3.1.4.68.2.1 GetLobSystemsLikeName 355](#_Toc466893557)

[3.1.4.68.2.2 GetLobSystemsLikeNameResponse 355](#_Toc466893558)

[3.1.4.68.3 Complex Types 356](#_Toc466893559)

[3.1.4.68.4 Simple Types 356](#_Toc466893560)

[3.1.4.68.5 Attributes 356](#_Toc466893561)

[3.1.4.68.6 Groups 356](#_Toc466893562)

[3.1.4.68.7 Attribute Groups 356](#_Toc466893563)

[3.1.4.69 GetLobSystemsReferencedByEntitiesAssociatedWithModel 356](#_Toc466893564)

[3.1.4.69.1 Messages 357](#_Toc466893565)

[3.1.4.69.1.1 BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage 358](#_Toc466893566)

[3.1.4.69.1.2 BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage 358](#_Toc466893567)

[3.1.4.69.2 Elements 358](#_Toc466893568)

[3.1.4.69.2.1 GetLobSystemsReferencedByEntitiesAssociatedWithModel 358](#_Toc466893569)

[3.1.4.69.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse 359](#_Toc466893570)

[3.1.4.69.3 Complex Types 359](#_Toc466893571)

[3.1.4.69.4 Simple Types 359](#_Toc466893572)

[3.1.4.69.4.1 LobSystemConstants.LobSystemsInModelQuery 360](#_Toc466893573)

[3.1.4.69.5 Attributes 360](#_Toc466893574)

[3.1.4.69.6 Groups 360](#_Toc466893575)

[3.1.4.69.7 Attribute Groups 360](#_Toc466893576)

[3.1.4.70 GetMethodById 360](#_Toc466893577)

[3.1.4.70.1 Messages 361](#_Toc466893578)

[3.1.4.70.1.1 BusinessDataCatalogSharedService\_GetMethodById\_InputMessage 362](#_Toc466893579)

[3.1.4.70.1.2 BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage 362](#_Toc466893580)

[3.1.4.70.2 Elements 362](#_Toc466893581)

[3.1.4.70.2.1 GetMethodById 362](#_Toc466893582)

[3.1.4.70.2.2 GetMethodByIdResponse 363](#_Toc466893583)

[3.1.4.70.3 Complex Types 363](#_Toc466893584)

[3.1.4.70.4 Simple Types 363](#_Toc466893585)

[3.1.4.70.5 Attributes 363](#_Toc466893586)

[3.1.4.70.6 Groups 363](#_Toc466893587)

[3.1.4.70.7 Attribute Groups 363](#_Toc466893588)

[3.1.4.71 GetMethodInstanceById 363](#_Toc466893589)

[3.1.4.71.1 Messages 365](#_Toc466893590)

[3.1.4.71.1.1 BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage 365](#_Toc466893591)

[3.1.4.71.1.2 BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage 365](#_Toc466893592)

[3.1.4.71.2 Elements 365](#_Toc466893593)

[3.1.4.71.2.1 GetMethodInstanceById 366](#_Toc466893594)

[3.1.4.71.2.2 GetMethodInstanceByIdResponse 366](#_Toc466893595)

[3.1.4.71.3 Complex Types 366](#_Toc466893596)

[3.1.4.71.4 Simple Types 366](#_Toc466893597)

[3.1.4.71.5 Attributes 366](#_Toc466893598)

[3.1.4.71.6 Groups 366](#_Toc466893599)

[3.1.4.71.7 Attribute Groups 367](#_Toc466893600)

[3.1.4.72 GetMethodInstancesForDataClass 367](#_Toc466893601)

[3.1.4.72.1 Messages 368](#_Toc466893602)

[3.1.4.72.1.1 BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage 368](#_Toc466893603)

[3.1.4.72.1.2 BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage 368](#_Toc466893604)

[3.1.4.72.2 Elements 368](#_Toc466893605)

[3.1.4.72.2.1 GetMethodInstancesForDataClass 369](#_Toc466893606)

[3.1.4.72.2.2 GetMethodInstancesForDataClassResponse 369](#_Toc466893607)

[3.1.4.72.3 Complex Types 369](#_Toc466893608)

[3.1.4.72.4 Simple Types 369](#_Toc466893609)

[3.1.4.72.5 Attributes 370](#_Toc466893610)

[3.1.4.72.6 Groups 370](#_Toc466893611)

[3.1.4.72.7 Attribute Groups 370](#_Toc466893612)

[3.1.4.73 GetMethodInstancesForMethod 370](#_Toc466893613)

[3.1.4.73.1 Messages 371](#_Toc466893614)

[3.1.4.73.1.1 BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage 371](#_Toc466893615)

[3.1.4.73.1.2 BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage 372](#_Toc466893616)

[3.1.4.73.2 Elements 372](#_Toc466893617)

[3.1.4.73.2.1 GetMethodInstancesForMethod 372](#_Toc466893618)

[3.1.4.73.2.2 GetMethodInstancesForMethodResponse 372](#_Toc466893619)

[3.1.4.73.3 Complex Types 373](#_Toc466893620)

[3.1.4.73.4 Simple Types 373](#_Toc466893621)

[3.1.4.73.5 Attributes 373](#_Toc466893622)

[3.1.4.73.6 Groups 373](#_Toc466893623)

[3.1.4.73.7 Attribute Groups 373](#_Toc466893624)

[3.1.4.74 GetMethodsForDataClass 373](#_Toc466893625)

[3.1.4.74.1 Messages 374](#_Toc466893626)

[3.1.4.74.1.1 BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage 374](#_Toc466893627)

[3.1.4.74.1.2 BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage 375](#_Toc466893628)

[3.1.4.74.2 Elements 375](#_Toc466893629)

[3.1.4.74.2.1 GetMethodsForDataClass 375](#_Toc466893630)

[3.1.4.74.2.2 GetMethodsForDataClassResponse 375](#_Toc466893631)

[3.1.4.74.3 Complex Types 376](#_Toc466893632)

[3.1.4.74.3.1 ArrayOfMethodStruct 376](#_Toc466893633)

[3.1.4.74.4 Simple Types 376](#_Toc466893634)

[3.1.4.74.5 Attributes 376](#_Toc466893635)

[3.1.4.74.6 Groups 376](#_Toc466893636)

[3.1.4.74.7 Attribute Groups 376](#_Toc466893637)

[3.1.4.75 GetModelById 376](#_Toc466893638)

[3.1.4.75.1 Messages 377](#_Toc466893639)

[3.1.4.75.1.1 BusinessDataCatalogSharedService\_GetModelById\_InputMessage 378](#_Toc466893640)

[3.1.4.75.1.2 BusinessDataCatalogSharedService\_GetModelById\_OutputMessage 378](#_Toc466893641)

[3.1.4.75.2 Elements 378](#_Toc466893642)

[3.1.4.75.2.1 GetModelById 378](#_Toc466893643)

[3.1.4.75.2.2 GetModelByIdResponse 379](#_Toc466893644)

[3.1.4.75.3 Complex Types 379](#_Toc466893645)

[3.1.4.75.4 Simple Types 379](#_Toc466893646)

[3.1.4.75.5 Attributes 379](#_Toc466893647)

[3.1.4.75.6 Groups 379](#_Toc466893648)

[3.1.4.75.7 Attribute Groups 379](#_Toc466893649)

[3.1.4.76 GetModelByName 379](#_Toc466893650)

[3.1.4.76.1 Messages 380](#_Toc466893651)

[3.1.4.76.1.1 BusinessDataCatalogSharedService\_GetModelByName\_InputMessage 381](#_Toc466893652)

[3.1.4.76.1.2 BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage 381](#_Toc466893653)

[3.1.4.76.2 Elements 381](#_Toc466893654)

[3.1.4.76.2.1 GetModelByName 381](#_Toc466893655)

[3.1.4.76.2.2 GetModelByNameResponse 382](#_Toc466893656)

[3.1.4.76.3 Complex Types 382](#_Toc466893657)

[3.1.4.76.4 Simple Types 382](#_Toc466893658)

[3.1.4.76.5 Attributes 382](#_Toc466893659)

[3.1.4.76.6 Groups 382](#_Toc466893660)

[3.1.4.76.7 Attribute Groups 382](#_Toc466893661)

[3.1.4.77 GetModelsByEntityId 382](#_Toc466893662)

[3.1.4.77.1 Messages 383](#_Toc466893663)

[3.1.4.77.1.1 BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage 384](#_Toc466893664)

[3.1.4.77.1.2 BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage 384](#_Toc466893665)

[3.1.4.77.2 Elements 384](#_Toc466893666)

[3.1.4.77.2.1 GetModelsByEntityId 384](#_Toc466893667)

[3.1.4.77.2.2 GetModelsByEntityIdResponse 385](#_Toc466893668)

[3.1.4.77.3 Complex Types 385](#_Toc466893669)

[3.1.4.77.4 Simple Types 385](#_Toc466893670)

[3.1.4.77.5 Attributes 385](#_Toc466893671)

[3.1.4.77.6 Groups 385](#_Toc466893672)

[3.1.4.77.7 Attribute Groups 385](#_Toc466893673)

[3.1.4.78 GetModelsByName 385](#_Toc466893674)

[3.1.4.78.1 Messages 386](#_Toc466893675)

[3.1.4.78.1.1 BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage 387](#_Toc466893676)

[3.1.4.78.1.2 BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage 387](#_Toc466893677)

[3.1.4.78.2 Elements 387](#_Toc466893678)

[3.1.4.78.2.1 GetModelsByName 387](#_Toc466893679)

[3.1.4.78.2.2 GetModelsByNameResponse 388](#_Toc466893680)

[3.1.4.78.3 Complex Types 388](#_Toc466893681)

[3.1.4.78.4 Simple Types 388](#_Toc466893682)

[3.1.4.78.5 Attributes 388](#_Toc466893683)

[3.1.4.78.6 Groups 388](#_Toc466893684)

[3.1.4.78.7 Attribute Groups 389](#_Toc466893685)

[3.1.4.79 GetParameterById 389](#_Toc466893686)

[3.1.4.79.1 Messages 390](#_Toc466893687)

[3.1.4.79.1.1 BusinessDataCatalogSharedService\_GetParameterById\_InputMessage 390](#_Toc466893688)

[3.1.4.79.1.2 BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage 390](#_Toc466893689)

[3.1.4.79.2 Elements 390](#_Toc466893690)

[3.1.4.79.2.1 GetParameterById 391](#_Toc466893691)

[3.1.4.79.2.2 GetParameterByIdResponse 391](#_Toc466893692)

[3.1.4.79.3 Complex Types 391](#_Toc466893693)

[3.1.4.79.4 Simple Types 391](#_Toc466893694)

[3.1.4.79.5 Attributes 391](#_Toc466893695)

[3.1.4.79.6 Groups 392](#_Toc466893696)

[3.1.4.79.7 Attribute Groups 392](#_Toc466893697)

[3.1.4.80 GetParametersForMethod 392](#_Toc466893698)

[3.1.4.80.1 Messages 393](#_Toc466893699)

[3.1.4.80.1.1 BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage 393](#_Toc466893700)

[3.1.4.80.1.2 BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage 393](#_Toc466893701)

[3.1.4.80.2 Elements 394](#_Toc466893702)

[3.1.4.80.2.1 GetParametersForMethod 394](#_Toc466893703)

[3.1.4.80.2.2 GetParametersForMethodResponse 394](#_Toc466893704)

[3.1.4.80.3 Complex Types 394](#_Toc466893705)

[3.1.4.80.3.1 ArrayOfParameterStruct 395](#_Toc466893706)

[3.1.4.80.4 Simple Types 395](#_Toc466893707)

[3.1.4.80.5 Attributes 395](#_Toc466893708)

[3.1.4.80.6 Groups 395](#_Toc466893709)

[3.1.4.80.7 Attribute Groups 395](#_Toc466893710)

[3.1.4.81 GetRootTypeDescriptorForParameter 395](#_Toc466893711)

[3.1.4.81.1 Messages 396](#_Toc466893712)

[3.1.4.81.1.1 BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage 397](#_Toc466893713)

[3.1.4.81.1.2 BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage 397](#_Toc466893714)

[3.1.4.81.2 Elements 397](#_Toc466893715)

[3.1.4.81.2.1 GetRootTypeDescriptorForParameter 397](#_Toc466893716)

[3.1.4.81.2.2 GetRootTypeDescriptorForParameterResponse 398](#_Toc466893717)

[3.1.4.81.3 Complex Types 398](#_Toc466893718)

[3.1.4.81.4 Simple Types 398](#_Toc466893719)

[3.1.4.81.5 Attributes 398](#_Toc466893720)

[3.1.4.81.6 Groups 398](#_Toc466893721)

[3.1.4.81.7 Attribute Groups 398](#_Toc466893722)

[3.1.4.82 GetServiceApplicationId 398](#_Toc466893723)

[3.1.4.82.1 Messages 399](#_Toc466893724)

[3.1.4.82.1.1 BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage 399](#_Toc466893725)

[3.1.4.82.1.2 BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage 399](#_Toc466893726)

[3.1.4.82.2 Elements 399](#_Toc466893727)

[3.1.4.82.2.1 GetServiceApplicationId 400](#_Toc466893728)

[3.1.4.82.2.2 GetServiceApplicationIdResponse 400](#_Toc466893729)

[3.1.4.82.3 Complex Types 400](#_Toc466893730)

[3.1.4.82.4 Simple Types 400](#_Toc466893731)

[3.1.4.82.5 Attributes 400](#_Toc466893732)

[3.1.4.82.6 Groups 400](#_Toc466893733)

[3.1.4.82.7 Attribute Groups 400](#_Toc466893734)

[3.1.4.83 GetSystemUtilityTypeNameForLobSystem 401](#_Toc466893735)

[3.1.4.83.1 Messages 402](#_Toc466893736)

[3.1.4.83.1.1 BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage 402](#_Toc466893737)

[3.1.4.83.1.2 BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage 402](#_Toc466893738)

[3.1.4.83.2 Elements 403](#_Toc466893739)

[3.1.4.83.2.1 GetSystemUtilityTypeNameForLobSystem 403](#_Toc466893740)

[3.1.4.83.2.2 GetSystemUtilityTypeNameForLobSystemResponse 403](#_Toc466893741)

[3.1.4.83.3 Complex Types 403](#_Toc466893742)

[3.1.4.83.4 Simple Types 403](#_Toc466893743)

[3.1.4.83.5 Attributes 404](#_Toc466893744)

[3.1.4.83.6 Groups 404](#_Toc466893745)

[3.1.4.83.7 Attribute Groups 404](#_Toc466893746)

[3.1.4.84 GetThrottlingRules 404](#_Toc466893747)

[3.1.4.84.1 Messages 404](#_Toc466893748)

[3.1.4.84.1.1 BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage 405](#_Toc466893749)

[3.1.4.84.1.2 BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage 405](#_Toc466893750)

[3.1.4.84.2 Elements 405](#_Toc466893751)

[3.1.4.84.2.1 GetThrottlingRules 405](#_Toc466893752)

[3.1.4.84.2.2 GetThrottlingRulesResponse 405](#_Toc466893753)

[3.1.4.84.3 Complex Types 406](#_Toc466893754)

[3.1.4.84.3.1 ArrayOfSafetyNetStruct 406](#_Toc466893755)

[3.1.4.84.4 Simple Types 406](#_Toc466893756)

[3.1.4.84.5 Attributes 406](#_Toc466893757)

[3.1.4.84.6 Groups 406](#_Toc466893758)

[3.1.4.84.7 Attribute Groups 406](#_Toc466893759)

[3.1.4.85 GetTypeDescriptorById 406](#_Toc466893760)

[3.1.4.85.1 Messages 408](#_Toc466893761)

[3.1.4.85.1.1 BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage 408](#_Toc466893762)

[3.1.4.85.1.2 BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage 408](#_Toc466893763)

[3.1.4.85.2 Elements 408](#_Toc466893764)

[3.1.4.85.2.1 GetTypeDescriptorById 409](#_Toc466893765)

[3.1.4.85.2.2 GetTypeDescriptorByIdResponse 409](#_Toc466893766)

[3.1.4.85.3 Complex Types 409](#_Toc466893767)

[3.1.4.85.4 Simple Types 409](#_Toc466893768)

[3.1.4.85.5 Attributes 409](#_Toc466893769)

[3.1.4.85.6 Groups 409](#_Toc466893770)

[3.1.4.85.7 Attribute Groups 410](#_Toc466893771)

[3.1.4.86 GetTypeDescriptorsByNameAndLevelForParameter 410](#_Toc466893772)

[3.1.4.86.1 Messages 411](#_Toc466893773)

[3.1.4.86.1.1 BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage 411](#_Toc466893774)

[3.1.4.86.1.2 BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage 412](#_Toc466893775)

[3.1.4.86.2 Elements 412](#_Toc466893776)

[3.1.4.86.2.1 GetTypeDescriptorsByNameAndLevelForParameter 412](#_Toc466893777)

[3.1.4.86.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse 413](#_Toc466893778)

[3.1.4.86.3 Complex Types 413](#_Toc466893779)

[3.1.4.86.4 Simple Types 413](#_Toc466893780)

[3.1.4.86.5 Attributes 413](#_Toc466893781)

[3.1.4.86.6 Groups 413](#_Toc466893782)

[3.1.4.86.7 Attribute Groups 413](#_Toc466893783)

[3.1.4.87 GetTypeDescriptorsForFilterDescriptor 413](#_Toc466893784)

[3.1.4.87.1 Messages 414](#_Toc466893785)

[3.1.4.87.1.1 BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage 415](#_Toc466893786)

[3.1.4.87.1.2 BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage 415](#_Toc466893787)

[3.1.4.87.2 Elements 415](#_Toc466893788)

[3.1.4.87.2.1 GetTypeDescriptorsForFilterDescriptor 415](#_Toc466893789)

[3.1.4.87.2.2 GetTypeDescriptorsForFilterDescriptorResponse 416](#_Toc466893790)

[3.1.4.87.3 Complex Types 416](#_Toc466893791)

[3.1.4.87.4 Simple Types 416](#_Toc466893792)

[3.1.4.87.5 Attributes 416](#_Toc466893793)

[3.1.4.87.6 Groups 416](#_Toc466893794)

[3.1.4.87.7 Attribute Groups 416](#_Toc466893795)

[3.1.4.88 GetTypeReflectorTypeNameForParameter 416](#_Toc466893796)

[3.1.4.88.1 Messages 418](#_Toc466893797)

[3.1.4.88.1.1 BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage 418](#_Toc466893798)

[3.1.4.88.1.2 BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage 418](#_Toc466893799)

[3.1.4.88.2 Elements 418](#_Toc466893800)

[3.1.4.88.2.1 GetTypeReflectorTypeNameForParameter 419](#_Toc466893801)

[3.1.4.88.2.2 GetTypeReflectorTypeNameForParameterResponse 419](#_Toc466893802)

[3.1.4.88.3 Complex Types 419](#_Toc466893803)

[3.1.4.88.4 Simple Types 419](#_Toc466893804)

[3.1.4.88.5 Attributes 419](#_Toc466893805)

[3.1.4.88.6 Groups 420](#_Toc466893806)

[3.1.4.88.7 Attribute Groups 420](#_Toc466893807)

[3.1.4.89 GetXmlSchemaForView 420](#_Toc466893808)

[3.1.4.89.1 Messages 420](#_Toc466893809)

[3.1.4.89.1.1 BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage 421](#_Toc466893810)

[3.1.4.89.1.2 BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage 421](#_Toc466893811)

[3.1.4.89.2 Elements 421](#_Toc466893812)

[3.1.4.89.2.1 GetXmlSchemaForView 421](#_Toc466893813)

[3.1.4.89.2.2 GetXmlSchemaForViewResponse 422](#_Toc466893814)

[3.1.4.89.3 Complex Types 422](#_Toc466893815)

[3.1.4.89.4 Simple Types 422](#_Toc466893816)

[3.1.4.89.5 Attributes 422](#_Toc466893817)

[3.1.4.89.6 Groups 422](#_Toc466893818)

[3.1.4.89.7 Attribute Groups 422](#_Toc466893819)

[3.1.4.90 HaveRights 422](#_Toc466893820)

[3.1.4.90.1 Messages 423](#_Toc466893821)

[3.1.4.90.1.1 BusinessDataCatalogSharedService\_HaveRights\_InputMessage 424](#_Toc466893822)

[3.1.4.90.1.2 BusinessDataCatalogSharedService\_HaveRights\_OutputMessage 424](#_Toc466893823)

[3.1.4.90.2 Elements 424](#_Toc466893824)

[3.1.4.90.2.1 HaveRights 424](#_Toc466893825)

[3.1.4.90.2.2 HaveRightsResponse 425](#_Toc466893826)

[3.1.4.90.3 Complex Types 425](#_Toc466893827)

[3.1.4.90.4 Simple Types 425](#_Toc466893828)

[3.1.4.90.4.1 BdcRights 425](#_Toc466893829)

[3.1.4.90.5 Attributes 426](#_Toc466893830)

[3.1.4.90.6 Groups 426](#_Toc466893831)

[3.1.4.90.7 Attribute Groups 426](#_Toc466893832)

[3.1.4.91 ImportPackage 426](#_Toc466893833)

[3.1.4.91.1 Messages 429](#_Toc466893834)

[3.1.4.91.1.1 BusinessDataCatalogSharedService\_ImportPackage\_InputMessage 430](#_Toc466893835)

[3.1.4.91.1.2 BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage 430](#_Toc466893836)

[3.1.4.91.2 Elements 430](#_Toc466893837)

[3.1.4.91.2.1 ImportPackage 430](#_Toc466893838)

[3.1.4.91.2.2 ImportPackageResponse 431](#_Toc466893839)

[3.1.4.91.3 Complex Types 432](#_Toc466893840)

[3.1.4.91.4 Simple Types 432](#_Toc466893841)

[3.1.4.91.5 Attributes 432](#_Toc466893842)

[3.1.4.91.6 Groups 432](#_Toc466893843)

[3.1.4.91.7 Attribute Groups 432](#_Toc466893844)

[3.1.4.92 ImportPackageWithProgress 432](#_Toc466893845)

[3.1.4.92.1 Messages 435](#_Toc466893846)

[3.1.4.92.1.1 BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage 436](#_Toc466893847)

[3.1.4.92.1.2 BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage 436](#_Toc466893848)

[3.1.4.92.2 Elements 436](#_Toc466893849)

[3.1.4.92.2.1 ImportPackageWithProgress 436](#_Toc466893850)

[3.1.4.92.2.2 ImportPackageWithProgressResponse 437](#_Toc466893851)

[3.1.4.92.3 Complex Types 438](#_Toc466893852)

[3.1.4.92.4 Simple Types 438](#_Toc466893853)

[3.1.4.92.5 Attributes 438](#_Toc466893854)

[3.1.4.92.6 Groups 438](#_Toc466893855)

[3.1.4.92.7 Attribute Groups 438](#_Toc466893856)

[3.1.4.93 IsMethodInstantiated 438](#_Toc466893857)

[3.1.4.93.1 Messages 439](#_Toc466893858)

[3.1.4.93.1.1 BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage 439](#_Toc466893859)

[3.1.4.93.1.2 BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage 440](#_Toc466893860)

[3.1.4.93.2 Elements 440](#_Toc466893861)

[3.1.4.93.2.1 IsMethodInstantiated 440](#_Toc466893862)

[3.1.4.93.2.2 IsMethodInstantiatedResponse 440](#_Toc466893863)

[3.1.4.93.3 Complex Types 441](#_Toc466893864)

[3.1.4.93.4 Simple Types 441](#_Toc466893865)

[3.1.4.93.5 Attributes 441](#_Toc466893866)

[3.1.4.93.6 Groups 441](#_Toc466893867)

[3.1.4.93.7 Attribute Groups 441](#_Toc466893868)

[3.1.4.94 IsParameterReferencedByMethodInstance 441](#_Toc466893869)

[3.1.4.94.1 Messages 442](#_Toc466893870)

[3.1.4.94.1.1 BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage 443](#_Toc466893871)

[3.1.4.94.1.2 BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage 443](#_Toc466893872)

[3.1.4.94.2 Elements 443](#_Toc466893873)

[3.1.4.94.2.1 IsParameterReferencedByMethodInstance 443](#_Toc466893874)

[3.1.4.94.2.2 IsParameterReferencedByMethodInstanceResponse 444](#_Toc466893875)

[3.1.4.94.3 Complex Types 444](#_Toc466893876)

[3.1.4.94.4 Simple Types 444](#_Toc466893877)

[3.1.4.94.5 Attributes 444](#_Toc466893878)

[3.1.4.94.6 Groups 444](#_Toc466893879)

[3.1.4.94.7 Attribute Groups 444](#_Toc466893880)

[3.1.4.95 MetadataObjectCreate 444](#_Toc466893881)

[3.1.4.95.1 Messages 450](#_Toc466893882)

[3.1.4.95.1.1 BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage 450](#_Toc466893883)

[3.1.4.95.1.2 BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage 451](#_Toc466893884)

[3.1.4.95.2 Elements 451](#_Toc466893885)

[3.1.4.95.2.1 MetadataObjectCreate 451](#_Toc466893886)

[3.1.4.95.2.2 MetadataObjectCreateResponse 451](#_Toc466893887)

[3.1.4.95.3 Complex Types 452](#_Toc466893888)

[3.1.4.95.4 Simple Types 452](#_Toc466893889)

[3.1.4.95.5 Attributes 452](#_Toc466893890)

[3.1.4.95.6 Groups 452](#_Toc466893891)

[3.1.4.95.7 Attribute Groups 452](#_Toc466893892)

[3.1.4.96 MetadataObjectMergeXml 452](#_Toc466893893)

[3.1.4.96.1 Messages 455](#_Toc466893894)

[3.1.4.96.1.1 BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage 455](#_Toc466893895)

[3.1.4.96.1.2 BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage 455](#_Toc466893896)

[3.1.4.96.2 Elements 455](#_Toc466893897)

[3.1.4.96.2.1 MetadataObjectMergeXml 455](#_Toc466893898)

[3.1.4.96.2.2 MetadataObjectMergeXmlResponse 457](#_Toc466893899)

[3.1.4.96.3 Complex Types 458](#_Toc466893900)

[3.1.4.96.4 Simple Types 458](#_Toc466893901)

[3.1.4.96.5 Attributes 458](#_Toc466893902)

[3.1.4.96.6 Groups 458](#_Toc466893903)

[3.1.4.96.7 Attribute Groups 458](#_Toc466893904)

[3.1.4.97 MetadataObjectReadXml 458](#_Toc466893905)

[3.1.4.97.1 Messages 463](#_Toc466893906)

[3.1.4.97.1.1 BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage 463](#_Toc466893907)

[3.1.4.97.1.2 BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage 463](#_Toc466893908)

[3.1.4.97.2 Elements 464](#_Toc466893909)

[3.1.4.97.2.1 MetadataObjectReadXml 464](#_Toc466893910)

[3.1.4.97.2.2 MetadataObjectReadXmlResponse 465](#_Toc466893911)

[3.1.4.97.3 Complex Types 466](#_Toc466893912)

[3.1.4.97.4 Simple Types 466](#_Toc466893913)

[3.1.4.97.5 Attributes 466](#_Toc466893914)

[3.1.4.97.6 Groups 466](#_Toc466893915)

[3.1.4.97.7 Attribute Groups 466](#_Toc466893916)

[3.1.4.98 MetadataObjectWriteXml 466](#_Toc466893917)

[3.1.4.98.1 Messages 468](#_Toc466893918)

[3.1.4.98.1.1 BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage 468](#_Toc466893919)

[3.1.4.98.1.2 BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage 468](#_Toc466893920)

[3.1.4.98.2 Elements 468](#_Toc466893921)

[3.1.4.98.2.1 MetadataObjectWriteXml 469](#_Toc466893922)

[3.1.4.98.2.2 MetadataObjectWriteXmlResponse 470](#_Toc466893923)

[3.1.4.98.3 Complex Types 471](#_Toc466893924)

[3.1.4.98.4 Simple Types 471](#_Toc466893925)

[3.1.4.98.5 Attributes 471](#_Toc466893926)

[3.1.4.98.6 Groups 471](#_Toc466893927)

[3.1.4.98.7 Attribute Groups 471](#_Toc466893928)

[3.1.4.99 ModelReadXml 472](#_Toc466893929)

[3.1.4.99.1 Messages 475](#_Toc466893930)

[3.1.4.99.1.1 BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage 475](#_Toc466893931)

[3.1.4.99.1.2 BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage 475](#_Toc466893932)

[3.1.4.99.2 Elements 476](#_Toc466893933)

[3.1.4.99.2.1 ModelReadXml 476](#_Toc466893934)

[3.1.4.99.2.2 ModelReadXmlResponse 477](#_Toc466893935)

[3.1.4.99.3 Complex Types 477](#_Toc466893936)

[3.1.4.99.4 Simple Types 477](#_Toc466893937)

[3.1.4.99.5 Attributes 477](#_Toc466893938)

[3.1.4.99.6 Groups 477](#_Toc466893939)

[3.1.4.99.7 Attribute Groups 477](#_Toc466893940)

[3.1.4.100 ReadSlicedXml 478](#_Toc466893941)

[3.1.4.100.1 Messages 479](#_Toc466893942)

[3.1.4.100.1.1 BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage 479](#_Toc466893943)

[3.1.4.100.1.2 BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage 479](#_Toc466893944)

[3.1.4.100.2 Elements 480](#_Toc466893945)

[3.1.4.100.2.1 ReadSlicedXml 480](#_Toc466893946)

[3.1.4.100.2.2 ReadSlicedXmlResponse 480](#_Toc466893947)

[3.1.4.100.3 Complex Types 481](#_Toc466893948)

[3.1.4.100.4 Simple Types 481](#_Toc466893949)

[3.1.4.100.5 Attributes 481](#_Toc466893950)

[3.1.4.100.6 Groups 481](#_Toc466893951)

[3.1.4.100.7 Attribute Groups 481](#_Toc466893952)

[3.1.4.101 RemoveEntityFromModel 481](#_Toc466893953)

[3.1.4.101.1 Messages 482](#_Toc466893954)

[3.1.4.101.1.1 BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage 483](#_Toc466893955)

[3.1.4.101.1.2 BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage 483](#_Toc466893956)

[3.1.4.101.2 Elements 483](#_Toc466893957)

[3.1.4.101.2.1 RemoveEntityFromModel 483](#_Toc466893958)

[3.1.4.101.2.2 RemoveEntityFromModelResponse 484](#_Toc466893959)

[3.1.4.101.3 Complex Types 484](#_Toc466893960)

[3.1.4.101.4 Simple Types 484](#_Toc466893961)

[3.1.4.101.5 Attributes 484](#_Toc466893962)

[3.1.4.101.6 Groups 484](#_Toc466893963)

[3.1.4.101.7 Attribute Groups 484](#_Toc466893964)

[3.1.4.102 RemoveLocalizedName 484](#_Toc466893965)

[3.1.4.102.1 Messages 485](#_Toc466893966)

[3.1.4.102.1.1 BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage 486](#_Toc466893967)

[3.1.4.102.1.2 BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage 486](#_Toc466893968)

[3.1.4.102.2 Elements 486](#_Toc466893969)

[3.1.4.102.2.1 RemoveLocalizedName 486](#_Toc466893970)

[3.1.4.102.2.2 RemoveLocalizedNameResponse 487](#_Toc466893971)

[3.1.4.102.3 Complex Types 487](#_Toc466893972)

[3.1.4.102.4 Simple Types 487](#_Toc466893973)

[3.1.4.102.5 Attributes 487](#_Toc466893974)

[3.1.4.102.6 Groups 487](#_Toc466893975)

[3.1.4.102.7 Attribute Groups 487](#_Toc466893976)

[3.1.4.103 RemoveProperty 487](#_Toc466893977)

[3.1.4.103.1 Messages 489](#_Toc466893978)

[3.1.4.103.1.1 BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage 489](#_Toc466893979)

[3.1.4.103.1.2 BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage 489](#_Toc466893980)

[3.1.4.103.2 Elements 489](#_Toc466893981)

[3.1.4.103.2.1 RemoveProperty 489](#_Toc466893982)

[3.1.4.103.2.2 RemovePropertyResponse 490](#_Toc466893983)

[3.1.4.103.3 Complex Types 490](#_Toc466893984)

[3.1.4.103.4 Simple Types 490](#_Toc466893985)

[3.1.4.103.5 Attributes 490](#_Toc466893986)

[3.1.4.103.6 Groups 490](#_Toc466893987)

[3.1.4.103.7 Attribute Groups 490](#_Toc466893988)

[3.1.4.104 RemoveThrottlingRule 490](#_Toc466893989)

[3.1.4.104.1 Messages 491](#_Toc466893990)

[3.1.4.104.1.1 BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage 492](#_Toc466893991)

[3.1.4.104.1.2 BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage 492](#_Toc466893992)

[3.1.4.104.2 Elements 492](#_Toc466893993)

[3.1.4.104.2.1 RemoveThrottlingRule 492](#_Toc466893994)

[3.1.4.104.2.2 RemoveThrottlingRuleResponse 493](#_Toc466893995)

[3.1.4.104.3 Complex Types 493](#_Toc466893996)

[3.1.4.104.4 Simple Types 493](#_Toc466893997)

[3.1.4.104.5 Attributes 493](#_Toc466893998)

[3.1.4.104.6 Groups 493](#_Toc466893999)

[3.1.4.104.7 Attribute Groups 493](#_Toc466894000)

[3.1.4.105 SaveLocalizedName 493](#_Toc466894001)

[3.1.4.105.1 Messages 494](#_Toc466894002)

[3.1.4.105.1.1 BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage 495](#_Toc466894003)

[3.1.4.105.1.2 BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage 495](#_Toc466894004)

[3.1.4.105.2 Elements 495](#_Toc466894005)

[3.1.4.105.2.1 SaveLocalizedName 495](#_Toc466894006)

[3.1.4.105.2.2 SaveLocalizedNameResponse 496](#_Toc466894007)

[3.1.4.105.3 Complex Types 496](#_Toc466894008)

[3.1.4.105.4 Simple Types 496](#_Toc466894009)

[3.1.4.105.5 Attributes 496](#_Toc466894010)

[3.1.4.105.6 Groups 496](#_Toc466894011)

[3.1.4.105.7 Attribute Groups 496](#_Toc466894012)

[3.1.4.106 SaveProperty 496](#_Toc466894013)

[3.1.4.106.1 Messages 497](#_Toc466894014)

[3.1.4.106.1.1 BusinessDataCatalogSharedService\_SaveProperty\_InputMessage 498](#_Toc466894015)

[3.1.4.106.1.2 BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage 498](#_Toc466894016)

[3.1.4.106.2 Elements 498](#_Toc466894017)

[3.1.4.106.2.1 SaveProperty 498](#_Toc466894018)

[3.1.4.106.2.2 SavePropertyResponse 499](#_Toc466894019)

[3.1.4.106.3 Complex Types 499](#_Toc466894020)

[3.1.4.106.4 Simple Types 499](#_Toc466894021)

[3.1.4.106.5 Attributes 499](#_Toc466894022)

[3.1.4.106.6 Groups 499](#_Toc466894023)

[3.1.4.106.7 Attribute Groups 499](#_Toc466894024)

[3.1.4.107 SetAccessControlEntries 499](#_Toc466894025)

[3.1.4.107.1 Messages 501](#_Toc466894026)

[3.1.4.107.1.1 BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage 501](#_Toc466894027)

[3.1.4.107.1.2 BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage 502](#_Toc466894028)

[3.1.4.107.2 Elements 502](#_Toc466894029)

[3.1.4.107.2.1 SetAccessControlEntries 502](#_Toc466894030)

[3.1.4.107.2.2 SetAccessControlEntriesResponse 502](#_Toc466894031)

[3.1.4.107.3 Complex Types 503](#_Toc466894032)

[3.1.4.107.4 Simple Types 503](#_Toc466894033)

[3.1.4.107.5 Attributes 503](#_Toc466894034)

[3.1.4.107.6 Groups 503](#_Toc466894035)

[3.1.4.107.7 Attribute Groups 503](#_Toc466894036)

[3.1.4.108 SetDefaultActionForEntity 503](#_Toc466894037)

[3.1.4.108.1 Messages 504](#_Toc466894038)

[3.1.4.108.1.1 BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage 505](#_Toc466894039)

[3.1.4.108.1.2 BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage 505](#_Toc466894040)

[3.1.4.108.2 Elements 505](#_Toc466894041)

[3.1.4.108.2.1 SetDefaultActionForEntity 505](#_Toc466894042)

[3.1.4.108.2.2 SetDefaultActionForEntityResponse 506](#_Toc466894043)

[3.1.4.108.3 Complex Types 506](#_Toc466894044)

[3.1.4.108.4 Simple Types 506](#_Toc466894045)

[3.1.4.108.5 Attributes 506](#_Toc466894046)

[3.1.4.108.6 Groups 506](#_Toc466894047)

[3.1.4.108.7 Attribute Groups 506](#_Toc466894048)

[3.1.4.109 SetDefaultValuesForTypeDescriptor 506](#_Toc466894049)

[3.1.4.109.1 Messages 508](#_Toc466894050)

[3.1.4.109.1.1 BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage 508](#_Toc466894051)

[3.1.4.109.1.2 BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage 508](#_Toc466894052)

[3.1.4.109.2 Elements 508](#_Toc466894053)

[3.1.4.109.2.1 SetDefaultValuesForTypeDescriptor 509](#_Toc466894054)

[3.1.4.109.2.2 SetDefaultValuesForTypeDescriptorResponse 509](#_Toc466894055)

[3.1.4.109.3 Complex Types 509](#_Toc466894056)

[3.1.4.109.4 Simple Types 509](#_Toc466894057)

[3.1.4.109.5 Attributes 509](#_Toc466894058)

[3.1.4.109.6 Groups 510](#_Toc466894059)

[3.1.4.109.7 Attribute Groups 510](#_Toc466894060)

[3.1.4.110 SetLobSystemDataByLobSystemId 510](#_Toc466894061)

[3.1.4.110.1 Messages 511](#_Toc466894062)

[3.1.4.110.1.1 BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage 511](#_Toc466894063)

[3.1.4.110.1.2 BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage 512](#_Toc466894064)

[3.1.4.110.2 Elements 512](#_Toc466894065)

[3.1.4.110.2.1 SetLobSystemDataByLobSystemId 512](#_Toc466894066)

[3.1.4.110.2.2 SetLobSystemDataByLobSystemIdResponse 512](#_Toc466894067)

[3.1.4.110.3 Complex Types 513](#_Toc466894068)

[3.1.4.110.4 Simple Types 513](#_Toc466894069)

[3.1.4.110.5 Attributes 513](#_Toc466894070)

[3.1.4.110.6 Groups 513](#_Toc466894071)

[3.1.4.110.7 Attribute Groups 513](#_Toc466894072)

[3.1.4.111 TypeDescriptorCreate 513](#_Toc466894073)

[3.1.4.111.1 Messages 515](#_Toc466894074)

[3.1.4.111.1.1 BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage 515](#_Toc466894075)

[3.1.4.111.1.2 BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage 515](#_Toc466894076)

[3.1.4.111.2 Elements 515](#_Toc466894077)

[3.1.4.111.2.1 TypeDescriptorCreate 515](#_Toc466894078)

[3.1.4.111.2.2 TypeDescriptorCreateResponse 516](#_Toc466894079)

[3.1.4.111.3 Complex Types 516](#_Toc466894080)

[3.1.4.111.4 Simple Types 516](#_Toc466894081)

[3.1.4.111.5 Attributes 516](#_Toc466894082)

[3.1.4.111.6 Groups 516](#_Toc466894083)

[3.1.4.111.7 Attribute Groups 517](#_Toc466894084)

[3.1.4.112 TypeDescriptorMergeXml 517](#_Toc466894085)

[3.1.4.112.1 Messages 518](#_Toc466894086)

[3.1.4.112.1.1 BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage 519](#_Toc466894087)

[3.1.4.112.1.2 BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage 519](#_Toc466894088)

[3.1.4.112.2 Elements 519](#_Toc466894089)

[3.1.4.112.2.1 TypeDescriptorMergeXml 519](#_Toc466894090)

[3.1.4.112.2.2 TypeDescriptorMergeXmlResponse 520](#_Toc466894091)

[3.1.4.112.3 Complex Types 521](#_Toc466894092)

[3.1.4.112.4 Simple Types 521](#_Toc466894093)

[3.1.4.112.5 Attributes 521](#_Toc466894094)

[3.1.4.112.6 Groups 521](#_Toc466894095)

[3.1.4.112.7 Attribute Groups 521](#_Toc466894096)

[3.1.4.113 TypeDescriptorReadXml 521](#_Toc466894097)

[3.1.4.113.1 Messages 523](#_Toc466894098)

[3.1.4.113.1.1 BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage 524](#_Toc466894099)

[3.1.4.113.1.2 BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage 524](#_Toc466894100)

[3.1.4.113.2 Elements 524](#_Toc466894101)

[3.1.4.113.2.1 TypeDescriptorReadXml 524](#_Toc466894102)

[3.1.4.113.2.2 TypeDescriptorReadXmlResponse 525](#_Toc466894103)

[3.1.4.113.3 Complex Types 525](#_Toc466894104)

[3.1.4.113.4 Simple Types 525](#_Toc466894105)

[3.1.4.113.5 Attributes 526](#_Toc466894106)

[3.1.4.113.6 Groups 526](#_Toc466894107)

[3.1.4.113.7 Attribute Groups 526](#_Toc466894108)

[3.1.4.114 Update 526](#_Toc466894109)

[3.1.4.114.1 Messages 530](#_Toc466894110)

[3.1.4.114.1.1 BusinessDataCatalogSharedService\_Update\_InputMessage 531](#_Toc466894111)

[3.1.4.114.1.2 BusinessDataCatalogSharedService\_Update\_OutputMessage 531](#_Toc466894112)

[3.1.4.114.2 Elements 531](#_Toc466894113)

[3.1.4.114.2.1 Update 531](#_Toc466894114)

[3.1.4.114.2.2 UpdateResponse 532](#_Toc466894115)

[3.1.4.114.3 Complex Types 532](#_Toc466894116)

[3.1.4.114.4 Simple Types 532](#_Toc466894117)

[3.1.4.114.5 Attributes 532](#_Toc466894118)

[3.1.4.114.6 Groups 532](#_Toc466894119)

[3.1.4.114.7 Attribute Groups 532](#_Toc466894120)

[3.1.4.115 WriteSlicedXml 532](#_Toc466894121)

[3.1.4.115.1 Messages 534](#_Toc466894122)

[3.1.4.115.1.1 BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage 534](#_Toc466894123)

[3.1.4.115.1.2 BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage 534](#_Toc466894124)

[3.1.4.115.2 Elements 534](#_Toc466894125)

[3.1.4.115.2.1 WriteSlicedXml 535](#_Toc466894126)

[3.1.4.115.2.2 WriteSlicedXmlResponse 535](#_Toc466894127)

[3.1.4.115.3 Complex Types 535](#_Toc466894128)

[3.1.4.115.4 Simple Types 535](#_Toc466894129)

[3.1.4.115.5 Attributes 535](#_Toc466894130)

[3.1.4.115.6 Groups 535](#_Toc466894131)

[3.1.4.115.7 Attribute Groups 536](#_Toc466894132)

[3.1.5 Timer Events 536](#_Toc466894133)

[3.1.6 Other Local Events 536](#_Toc466894134)

[4 Protocol Examples 537](#_Toc466894135)

[4.1 Creating an LobSystem 537](#_Toc466894136)

[4.2 Setting the Security Information of a MetadataObject 538](#_Toc466894137)

[4.3 Reading the Security Information of a MetadataObject 540](#_Toc466894138)

[4.4 Creating an Entity 541](#_Toc466894139)

[4.5 Activating an Entity 543](#_Toc466894140)

[4.6 Reading an Entity 545](#_Toc466894141)

[4.7 Creating Properties for MetadataObjects 547](#_Toc466894142)

[4.8 Adding Localized Names for MetadataObjects 548](#_Toc466894143)

[4.9 Updating an Entity 550](#_Toc466894144)

[4.10 Deleting an Entity 552](#_Toc466894145)

[5 Security 554](#_Toc466894146)

[5.1 Security Considerations for Implementers 554](#_Toc466894147)

[5.2 Index of Security Parameters 554](#_Toc466894148)

[6 Appendix A: Full WSDL 555](#_Toc466894149)

[7 Appendix B: Full XML Schema 750](#_Toc466894150)

[7.1 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema 750](#_Toc466894151)

[7.2 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema 751](#_Toc466894152)

[7.3 http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema 753](#_Toc466894153)

[7.4 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema 782](#_Toc466894154)

[7.5 Microsoft.BusinessData.SharePoint Schema 783](#_Toc466894155)

[7.6 http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific Schema 783](#_Toc466894156)

[7.7 http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants Schema 784](#_Toc466894157)

[7.8 Microsoft.SharePoint.BusinessData Schema 784](#_Toc466894158)

[7.9 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema 795](#_Toc466894159)

[7.10 http://schemas.microsoft.com/2003/10/Serialization/ Schema 795](#_Toc466894160)

[7.11 http://schemas.datacontract.org/2004/07/System Schema 796](#_Toc466894161)

[8 Appendix C: Product Behavior 798](#_Toc466894162)

[9 Change Tracking 807](#_Toc466894163)

[10 Index 809](#_Toc466894164)

# Introduction

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

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

## Glossary

This document uses the following terms:

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

**AccessChecker**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve the permissions that the calling [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) has for each of a collection of EntityInstances identified by the specified EntityInstanceIds.

**Action**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

**ActionParameter**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that defines how to parameterize the URL of an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) with specific data about an EntityInstance. ActionParameters are contained by Actions.

**ActivityTrackingFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. Its value specifies a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that enables the traversal and manipulation of a data model relationship between a set of source [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that provides a logical grouping of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). All of the [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) that are identified by AssociationReferences in the group operate on a single physical mapping of source [**EntityInstances**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) 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**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) of the AssociationGroup.

**AssociationNavigator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve destination [**EntityInstances**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) that are associated with a single specified EntityInstance for each of the sources of the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

**AssociationReference**: An entry in an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that refers to an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The sources of the AssociationReference are the sources of the referenced Association, and the destination of the AssociationReference is the destination of the referenced Association. The opposite is true if the AssociationReference is defined to be a reverse reference, for Associations with one source Entity.

**Associator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to associate the specified, destination EntityInstance with a single specified EntityInstance for each of the sources of the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

**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]](http://go.microsoft.com/fwlink/?LinkId=123096).

**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]](http://go.microsoft.com/fwlink/?LinkId=90487).

**BatchingPositionFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) and the associated permissions that each [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) has for the EntityInstance identified by a specified EntityInstanceId.

**BulkAssociatedIdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve pairs of EntityInstanceIds of source EntityInstances and EntityInstanceIds of corresponding destination EntityInstances for a specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The specified EntityInstances are either a source or a destination in the specified Association.

**BulkAssociationNavigator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve destination EntityInstances that are associated with multiple specified EntityInstances for each of the sources of the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

**BulkIdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) type that is used when querying a line-of-business (LOB) system. An LOB system can compare a ComparisonFilter value with the value of a specific Field of a set of EntityInstances and only those EntityInstances where the Field values pass the comparison test can be returned.

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

**Creator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that represents a type of a business data object obtained from a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286). Instances of a DataClass have transient identity. DataClasses are contained by [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and Methods.

**DefaultValue**: A value that is associated with a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55), 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to delete an EntityInstance with a specified EntityInstanceId.

**Disassociator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) 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**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in a line-of-business (LOB) system.

**FilterDescriptor**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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]](http://go.microsoft.com/fwlink/?LinkId=90460) or [[C706]](http://go.microsoft.com/fwlink/?LinkId=89824) must be used for generating the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). See also universally unique identifier (UUID).

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

**Hypertext Transfer Protocol Secure (HTTPS)**: An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [[SSL3]](http://go.microsoft.com/fwlink/?LinkId=90534) and [[RFC5246]](http://go.microsoft.com/fwlink/?LinkId=129803).

**Identifier**: The [**Field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) or [**Fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that define the Identity of an EntityInstance. Also referred to as Key.

**IdEnumerator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return the [**Field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that represents a specific deployed instance of a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286), as represented by a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) types.

**MetadataCatalog**: A [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that represents a Metadata partition.

**MetadataModel**: A collection of [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that describes a line-of-business (LOB) system. It provides a framework for converting operations that are requested by a protocol client into requests that are specific to a given LOB system.

**MetadataObject**: An abstract data structure that consists of a set of attributes (1) that represent a LobSystem, LobSystemInstance, DataClass, Entity, Method, MethodInstance, Parameter, TypeDescriptor, Identifier, FilterDescriptor, [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372), [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f), or [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

**MetadataObjectId**: An attribute (1) that uniquely identifies a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that is stored in a metadata store.

**Method**: A type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08). MethodInstances are contained by Methods.

**Model**: A [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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.

**ReturnTypeDescriptor**: An attribute (1) of a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). It is the TypeDescriptor that identifies the portion of a Method's return or output Parameters to extract and return as the result of executing the MethodInstance. It defines the View of the EntityInstances returned, with its child TypeDescriptors denoting the Fields of the View.

**root TypeDescriptor**: A [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that is contained by a Parameter and has no parent TypeDescriptor. A Parameter can contain only one root TypeDescriptor.

**Scalar**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return a scalar value.

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

**Setting**: A partition of a [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). It is used to store Properties, localized names, and [**access control entries (ACEs)**](#gt_b581857f-39aa-4979-876b-daba67a40f15) for [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**SOAP**: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) uses [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) 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]](http://go.microsoft.com/fwlink/?LinkId=90521).

**SOAP action**: The HTTP request header field used to indicate the intent of the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) request, using a [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) value. See [[SOAP1.1]](http://go.microsoft.com/fwlink/?LinkId=90520) 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]](http://go.microsoft.com/fwlink/?LinkId=94664) section 5.3 for more information.

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

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

**SpecificFinder**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to retrieve a [**Field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of an EntityInstance in the form of a data stream of bytes.

**throttle configuration setting**: A set of configuration information that supports algorithms that are implementation-specific and enforce time and space limits when executing operations against a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286). Examples are: limiting the number of concurrent operations against the LOB system, stopping an operation after a specific amount of time, and rejecting operations that read or write more than a specific quantity of data.

**TimeStampFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) standard [[UNICODE5.0.0/2007]](http://go.microsoft.com/fwlink/?LinkId=154659) provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

**Uniform Resource Identifier (URI)**: A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [[RFC3986]](http://go.microsoft.com/fwlink/?LinkId=90453).

**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]](http://go.microsoft.com/fwlink/?LinkId=90287).

**Updater**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to update an EntityInstance identified by a specified EntityInstanceId. The set of [**Fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that is required to update the EntityInstance is referred to as the Updater View.

**UserContextFilter**: A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb), 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) 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**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299) [[WSDL]](http://go.microsoft.com/fwlink/?LinkId=90577). 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]](http://go.microsoft.com/fwlink/?LinkId=90599).

**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]](http://go.microsoft.com/fwlink/?LinkId=90602).

**XML namespace prefix**: An abbreviated form of an [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24), as described in [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598).

**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**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](http://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## 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](http://msdn.microsoft.com/en-us/library/dn781092.aspx).

### Normative References

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

[ECMA-335] ECMA, "Common Language Infrastructure (CLI): Partitions I through VI", Standard ECMA-335, [http://www.ecma-international.org/flat/publications/Standards/Ecma-335.htm](http://go.microsoft.com/fwlink/?LinkId=93453)

[MS-BDCMFFS] Microsoft Corporation, "[Business Data Connectivity Model File Format](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a)".

[MS-NRTP] Microsoft Corporation, "[.NET Remoting: Core Protocol](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-NRTP%5d.pdf#Section_3acb31b0b8734aaf85039727ec40fbec)".

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPSTWS%5d.pdf#Section_98b483787d1543be986fab0084887ecf)".

[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](http://go.microsoft.com/fwlink/?LinkId=90317)

[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](http://go.microsoft.com/fwlink/?LinkId=90372)

[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](http://go.microsoft.com/fwlink/?LinkId=123096)

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, [http://www.w3.org/TR/2000/NOTE-SOAP-20000508/](http://go.microsoft.com/fwlink/?LinkId=90520)

[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](http://go.microsoft.com/fwlink/?LinkId=90521)

[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](http://go.microsoft.com/fwlink/?LinkId=90577)

[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/](http://go.microsoft.com/fwlink/?LinkId=191840)

[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/](http://go.microsoft.com/fwlink/?LinkId=90608)

[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/](http://go.microsoft.com/fwlink/?LinkId=90610)

[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/](http://go.microsoft.com/fwlink/?LinkId=90598)

### Informative References

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPTWS%5d.pdf#Section_2b42037c2f30492d9fdc0a02d85c811e)".

[MSDN-DataContractKnownTypes] Microsoft Corporation, "Data Contract Known Types", [http://msdn.microsoft.com/en-us/library/ms730167.aspx](http://go.microsoft.com/fwlink/?LinkId=271611)

[MSDN-DataContractSer] Microsoft Corporation, "DataContractSerializer Class", [http://msdn.microsoft.com/en-us/library/system.runtime.serialization.datacontractserializer.aspx](http://go.microsoft.com/fwlink/?LinkId=252297)

[MSDN-SharePointSDK] Microsoft Corporation, "SharePoint Products and Technologies SDK: 2010 API Reference (Technical Preview)", July 2009, [http://msdn.microsoft.com/en-us/library/ee557253(office.14).aspx](http://go.microsoft.com/fwlink/?LinkID=153289&clcid=0x409)

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, [http://www.rfc-editor.org/rfc/rfc2818.txt](http://go.microsoft.com/fwlink/?LinkId=90383)

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, [http://www.w3.org/TR/2003/REC-soap12-part2-20030624](http://go.microsoft.com/fwlink/?LinkId=90522)

## Protocol Overview (Synopsis)

Corporations have a variety of data stored in various [**line-of-business (LOB) systems**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286). Typically, this data is accessible through the proprietary programming interface of enterprise software systems. It is ideal to provide access to such data through a set of normalized interfaces so that users do not have to learn system-specific or adapter-specific programming patterns for each system.

To facilitate this access, it is possible to store descriptions of the programmatic interface of the LOB systems by using data structures, such as [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219), [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9), and [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55), along with information about the LOB systems themselves, such as the server name, connection information, and steps on how to authenticate users, by using data structures, such as [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

Methods can be considered to live in an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) abstraction that represents a business data type, such as "customer" or "order". The LOB system interface definitions can then be transformed into normalized, stereotypical operations against Entities, such as "Read-An-Entity-Instance-By-Id", "Read-Entity-Instances", and "Check-Entity-Instance-Permissions" by annotating the LOB system interface descriptions with the annotations described by data structures, such as [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0), [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb), and [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). These data structures, collectively called [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c), can be grouped into related collections called [**MetadataModels**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that describe a single LOB system. After a store of MetadataModels is made available, a runtime engine can use the store to convert a stereotypical normalized operation requested by an application that uses the protocol client into an LOB system-specific invocation programmatically.

This protocol enables a metadata client to create, read, update, and delete MetadataObjects in a [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). Additionally, for write operations, the protocol server provides validation and diagnostic errors, so that protocol clients can maintain the set of stored MetadataObjects in a state that satisfies certain semantic constraints for MetadataModels.

## Relationship to Other Protocols

This protocol uses the [**Simple Object Access Protocol (SOAP)**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) message protocol for formatting request and response messages, as described in [[SOAP1.2/1]](http://go.microsoft.com/fwlink/?LinkId=90521), and [[SOAP1.2/2]](http://go.microsoft.com/fwlink/?LinkId=90522). It transmits those messages using the [**Hypertext Transfer Protocol (HTTP)**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), as described in [[RFC2616]](http://go.microsoft.com/fwlink/?LinkId=90372), or the [**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7), as described in [[RFC2818]](http://go.microsoft.com/fwlink/?LinkId=90383).

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

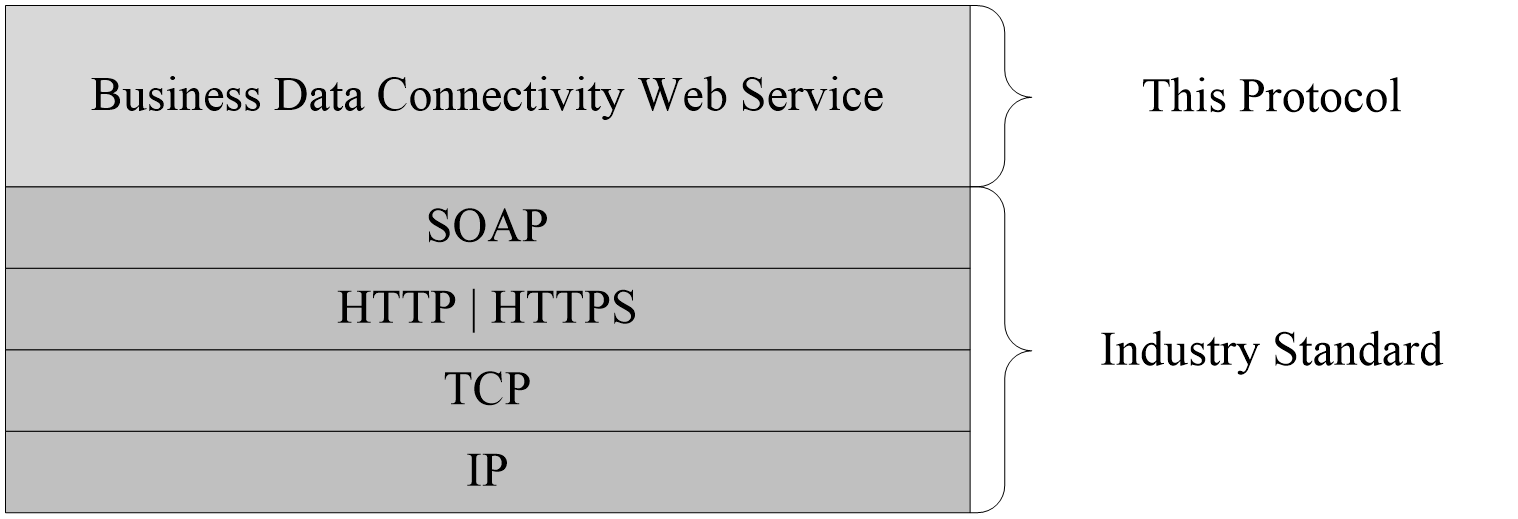


Figure 1: This protocol in relation to other protocols

## Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) [**Uniform Resource Identifier (URI)**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95)s that are known by protocol clients. The endpoint URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [[MS-SPTWS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPTWS%5d.pdf#Section_2b42037c2f30492d9fdc0a02d85c811e). The protocol server endpoint is formed by appending "/bdcservice.svc" to the URL of the site. For example: http://www.example.com/f0e82c9b92634081a8138bc38a967050/bdcservice.svc

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

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

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [[MS-SPSTWS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPSTWS%5d.pdf#Section_98b483787d1543be986fab0084887ecf).

## Applicability Statement

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

## Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

**Supported** **Transports**: This protocol can be implemented by using transports that support sending [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) messages, as described in section [2.1](#Section_f5efb6597d7d4e278ee8a3a257766a53).

**Protocol** **Versions**: This protocol is not versioned.

**Capability** **Negotiation**: This protocol does not support version negotiation.

## Vendor-Extensible Fields

None.

## Standards Assignments

None.

# Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) 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**.

## Transport

Protocol servers MUST support [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) over [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd) or [**HTTPS**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7).

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

Protocol messages MUST be formatted as specified in either [[SOAP1.1]](http://go.microsoft.com/fwlink/?LinkId=90520) section 4 or [[SOAP1.2/1]](http://go.microsoft.com/fwlink/?LinkId=90521) section 5. Protocol server faults MUST be returned by using either HTTP status codes, as specified in [[RFC2616]](http://go.microsoft.com/fwlink/?LinkId=90372) section 10, or [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in [SOAP1.1] section 4.4 or [SOAP1.2/1] section 5.4.

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

This protocol MAY transmit an additional SOAP header, the **ServiceContex**t header, as specified in [[MS-SPSTWS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPSTWS%5d.pdf#Section_98b483787d1543be986fab0084887ecf).

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

## Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067), as specified in [[XMLSCHEMA1]](http://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](http://go.microsoft.com/fwlink/?LinkId=90610), and [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa), as specified in [[WSDL]](http://go.microsoft.com/fwlink/?LinkId=90577).

### Namespaces

This specification defines and references various [**XML namespaces**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) using the mechanisms specified in [[XMLNS]](http://go.microsoft.com/fwlink/?LinkId=191840). Although this specification associates a specific [**XML namespace prefix**](#gt_b9a20be7-31d9-4dcd-9cb9-ba72302857a2) 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/System |  |
| q2 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure |  |
| q4 | Microsoft.BusinessData.SharePoint |  |
| q9 | Microsoft.SharePoint.BusinessData |  |
| q12 | 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]](http://go.microsoft.com/fwlink/?LinkId=90520) |
| tns | http://www.microsoft.com/Office/2009/BusinessDataCatalog |  |
| tns1 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel |  |
| tns2 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime |  |
| tns3 | http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific |  |
| tns4 | http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants |  |
| tns5 | http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports |  |
| wsaw | http://www.w3.org/2006/05/addressing/wsdl |  |
| wsdl | http://schemas.xmlsoap.org/wsdl/ | [[WSDL]](http://go.microsoft.com/fwlink/?LinkId=90577) |
| xs | http://www.w3.org/2001/XMLSchema | [[XMLSCHEMA1]](http://go.microsoft.com/fwlink/?LinkId=90608)  [[XMLSCHEMA2]](http://go.microsoft.com/fwlink/?LinkId=90610) |

### Messages

This specification does not define any common [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions.

### Elements

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions.

### Complex Types

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

The definitions of some complex types in this section make use of [**Augmented Backus-Naur Form (ABNF)**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf) representation as specified in [[RFC5234]](http://go.microsoft.com/fwlink/?LinkId=123096).

Complex types designated as error complex types and returned as responses by the protocol server MUST be formatted as [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in [[SOAP1.2/1]](http://go.microsoft.com/fwlink/?LinkId=90521) section 5.4.

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

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

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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)**](#gt_b581857f-39aa-4979-876b-daba67a40f15). |
| **AccessDeniedException** | The **AccessDeniedException** error complex type contains information about a protocol-server-side error caused by a violation of access control on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). This complex type MUST be included only as part of a SOAP fault as specified in section 2.2.4. |
| **AccessDeniedExceptionState** | The **AccessDeniedExceptionState** error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section 2.2.4. |
| **ActionParameterStruct** | The **ActionParameterStruct** complex type contains information about an [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f). |
| **ActionStruct** | The **ActionStruct** complex type contains information about an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). |
| **AdministrationMetadataCatalogStruct** | The **AdministrationMetadataCatalogStruct** contains information about a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8). |
| **ArgumentException** | The **ArgumentException** error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **ArgumentNullException** | The **ArgumentNullException** error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **ArgumentOutOfRangeException** | The **ArgumentOutOfRangeException** error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **ArrayOfAccessControlEntryStruct** | The **ArrayOfAccessControlEntryStruct** complex type is a list of complex types, each of which represents an ACE. |
| **ArrayOfAssociationStruct** | The **ArrayOfAssociationStruct** complex type is a list of complex types, each of which represents an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). |
| **ArrayOfEntityStruct** | The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). |
| **ArrayOfLobSystemStruct** | The **ArrayOfLobSystemStruct** complex type is a list of complex types, each of which represents an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). |
| **ArrayOfLocalizedNameStruct** | The **ArrayOfLocalizedNameStruct** complex type is a list of complex types, each of which represents a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423). |
| **ArrayOfMethodInstanceStruct** | The **ArrayOfMethodInstanceStruct** complex type is a list of complex types, each of which represents a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| **ArrayOfModelStruct** | The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). |
| **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]](http://go.microsoft.com/fwlink/?LinkId=90610). |
| **ArrayOfTypeDescriptorStruct** | The **ArrayOfTypeDescriptorStruct** complex type is a list of complex types, each of which represents a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). |
| **ArrayOfunsignedInt** | The **ArrayOfunsignedInt** complex type represents a list of unsigned **xs:unsignedInt** as specified in [XMLSCHEMA2]. |
| **AssociationGroupStruct** | The **AssociationGroupStruct** complex type contains information about an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). Each Association referenced by the [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) contained by the **AssociationGroup** is identified by the values in the same index of the following lists:   * associationEntityNames * associationEntityNamespaces * associationNames * associationIds |
| **AssociationReferenceStruct** | The **AssociationReferenceStruct** complex type contains information about an AssociationReference. |
| **AssociationStruct** | The **AssociationStruct** complex type MUST contain information about an Association. A namespace at any index of the **sourceEntityNamespaces** element of this complex type MUST be the namespace of the Entity whose name is at the same index of the **sourceEntityNames** element. |
| **BdcException** | The **BdcException** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a **SOAP fault,** as specified in section 2.2.4. |
| **BdcExceptionState** | The **BdcExceptionState** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **ComplexValueStruct** | The **ComplexValueStruct** complex type MUST contain information about the data types related to the element containing this complex type. |
| **ConcurrentModificationExceptionState** | The **ConcurrentModificationExceptionState** error complex type contains information about a protocol-server-side error caused by concurrent modification of a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4. |
| **DataClassStruct** | The **DataClassStruct** complex type MUST contain information about a [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). |
| **DefaultValueStruct** | The **DefaultValueStruct** complex type contains details of a [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of a TypeDescriptor. |
| **DuplicateMetadataObjectExceptionState** | The **DuplicateMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by duplication of a MetadataObject. This complex type MUST only be included as part of a SOAP fault, as specified in section 2.2.4. |
| **EntityStruct** | The **EntityStruct** complex type contains information about an Entity. |
| **ExceededMetadataObjectLimitExceptionState** | The **ExceededMetadataObjectLimitExceptionState** error complex type contains information about a protocol-server-side error caused when a MetadataObject exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type MUST only be included as part of a SOAP fault as section 2.2.4. |
| **Exception** | The **Exception** error complex type contains information about a protocol-server-side error. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **FilterDescriptorStruct** | The **FilterDescriptorStruct** complex type contains information about a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |
| **IdentifierStruct** | The **IdentifierStruct** complex type contains information about an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0). |
| **InvalidMetadataObjectExceptionState** | The **InvalidMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by invalid attributes of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4. |
| **InvalidMetadataPropertyExceptionState** | The **InvalidMetadataPropertyExceptionState** error complex type contains information about a protocol-server-side error caused by an invalid **Property** detected in the set of **Properties** of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4. |
| **InvalidOperationException** | The **InvalidOperationException** error complex contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **LobSystemInstanceStruct** | The **LobSystemInstanceStruct** complex type contains information about an [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). |
| **LobSystemStruct** | The **LobSystemStruct** complex type contains information about an LobSystem. |
| **LocalizedNameStruct** | The **LocalizedNameStruct** complex type contains information about a localized name. |
| **MetadataException** | The **MetadataException** error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) constraint in the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4. |
| **MetadataObjectNotFoundExceptionState** | The **MetadataObjectNotFoundExceptionState** error complex type contains information about a protocol-server-side error caused when a requested MetadataObject is not found. This complex type MUST only be included as part of a SOAP fault, as specified in section 2.2.4. |
| **MetadataObjectStruct** | The **MetadataObjectStruct** complex type contains the attributes of the MetadataObject. |
| **MethodInstanceStruct** | The **MethodInstanceStruct** complex type contains information about a MethodInstance. |
| **MethodStruct** | The **MethodStruct** complex type contains information about a [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). |
| **ModelStruct** | The **ModelStruct** complex type contains information about a Model. |
| **PackageFormatExceptionState** | The **PackageFormatExceptionState** error complex type contains information about a protocol-server-side error caused when specified [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) does not conform to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) or the MetadataModel contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] has invalid configuration of MetadataObjects or their attributes. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4. |
| **ParameterStruct** | The **ParameterStruct** complex type contains information about a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |
| **PropertyStruct** | The **PropertyStruct** complex type contains information about a **Property**. |
| **ProxyGenerationResult** | The **ProxyGenerationResult** complex type contains information about [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<1>](#Appendix_A_1" \o "Product behavior note 1). |
| **SafetyNetStruct** | The **SafetyNetStruct** complex type represents a single [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) that encapsulates configuration information to support implementation-specific time-and-space-limiting algorithms in the protocol client when running operations against a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286). For example, an implementation of the protocol that reads MetadataModels and uses them to run operations against an LOB system could limit the number of concurrent operations against the LOB system, abort an operation after a certain amount of time has expired, or reject operations that read or write more than a specific quantity of data. |
| **TypeDescriptorStruct** | The **TypeDescriptorStruct** complex type contains information about a TypeDescriptor. |
| **Version** | The **Version** complex type MUST contain information about the version of a DataClass. |

#### AccessControlEntryStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AccessControlEntryStruct** complex type contains information about an [**access control entry (ACE)**](#gt_b581857f-39aa-4979-876b-daba67a40f15).

1. <xs:complexType name="AccessControlEntryStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="principalBinaryForm" nillable="true" type="xs:base64Binary"/>
4. <xs:element minOccurs="0" name="principalDisplayName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
7. </xs:sequence>
8. </xs:complexType>

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

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

**principalName:** The encoded name of a [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409). This element MUST be present. The value of this element MUST be as specified for the **AttributeValue** of the **Security** element of an RSTR message, as specified in [[MS-SPSTWS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPSTWS%5d.pdf#Section_98b483787d1543be986fab0084887ecf) section [2.2.2.2](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-SPSTWS%5d.docx#Section_a6a51c035f8e40a48f3172f492ea957a).

**rights:** The permissions available to a security principal to perform operations on or by using a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This element MUST be present. The value of this element MUST be the bitwise-OR operation of the values of the corresponding rights in the **BdcRights** enumeration (section [3.1.4.90.4.1](#Section_875a99d5ac6d4f819dd1b4bb5a174e32)).

#### AccessDeniedException

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

The **AccessDeniedException** error complex type contains information about a protocol-server-side error caused by a violation of access control on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

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

#### AccessDeniedExceptionState

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

The **AccessDeniedExceptionState** error complex type contains information about a protocol-server-side error caused by a violation of access control on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="AccessDeniedExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q2:BdcExceptionState">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="SecurableObjectName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**CurrentIdentity:** The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating when the violation of access control occurs. This element MUST be present.

**SecurableObjectName:** The name of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) 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.

#### ActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ActionParameterStruct** complex type contains information about an [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

1. <xs:complexType name="ActionParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
7. </xs:sequence>
8. </xs:extension>
9. </xs:complexContent>
10. </xs:complexType>

**actionId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) that contains this **ActionParameter**. The value of this element MUST be in the range 1-0x7fffffff.

**index:** The index of the **ActionParameter**. This index corresponds to the parameter in the command of the **Action** that contains this **ActionParameter**. The index values of **ActionParameters** that are contained by the same **Action** SHOULD[<2>](#Appendix_A_2" \o "Product behavior note 2) be greater than or equal to zero and less than the number of **ActionParameters** that are contained by the **Action**. The index values of **ActionParameters** SHOULD[<3>](#Appendix_A_3" \o "Product behavior note 3) be unique across all **ActionParameters** that are contained by the same **Action**.

#### ActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ActionStruct** complex type contains information about an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

1. <xs:complexType name="ActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
8. <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
9. <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that contains the **Action**. The value of this element MUST be in the range 0-0x7fffffff.

**imageUrl:** The implementation-specific location of the resource that is used to represent the **Action** in the user interface (UI). The application that utilizes the protocol client uses the resource in the specified location to represent the **Action** in the UI, possibly along with the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **Action**.

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

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

**url:** The implementation-specific parameterized command associated with the **Action**. The parameters of the command MUST correspond to [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) of this **Action**. This element MUST be present.

#### AdministrationMetadataCatalogStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AdministrationMetadataCatalogStruct** contains information about a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8).

1. <xs:complexType name="AdministrationMetadataCatalogStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence/>
5. </xs:extension>
6. </xs:complexContent>
7. </xs:complexType>

#### ArgumentException

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

The **ArgumentException** error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="ArgumentException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q1:SystemException"/>
4. </xs:complexContent>
5. </xs:complexType>

#### ArgumentNullException

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

The **ArgumentNullException** error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="ArgumentNullException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q1:ArgumentException"/>
4. </xs:complexContent>
5. </xs:complexType>

#### ArgumentOutOfRangeException

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

The **ArgumentOutOfRangeException** error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="ArgumentOutOfRangeException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q1:ArgumentException"/>
4. </xs:complexContent>
5. </xs:complexType>

#### ArrayOfAccessControlEntryStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAccessControlEntryStruct** complex type is a list of complex types, each of which represents an [**ACE**](#gt_b581857f-39aa-4979-876b-daba67a40f15).

1. <xs:complexType name="ArrayOfAccessControlEntryStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct" nillable="true" type="q9:AccessControlEntryStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AccessControlEntryStruct:** A complex type that represents an ACE.

#### ArrayOfAssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationStruct** complex type is a list of complex types, each of which represents an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

1. <xs:complexType name="ArrayOfAssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true" type="q9:AssociationStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfEntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

1. <xs:complexType name="ArrayOfEntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true" type="q9:EntityStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfLobSystemStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemStruct** complex type is a list of complex types, each of which represents an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

1. <xs:complexType name="ArrayOfLobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfLocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLocalizedNameStruct** complex type is a list of complex types, each of which represents a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423).

1. <xs:complexType name="ArrayOfLocalizedNameStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct" nillable="true" type="q9:LocalizedNameStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**LocalizedNameStruct:** A complex type that represents a localized name.

#### ArrayOfMethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfMethodInstanceStruct** complex type is a list of complex types, each of which represents a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

1. <xs:complexType name="ArrayOfMethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct" nillable="true" type="q9:MethodInstanceStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

1. <xs:complexType name="ArrayOfModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true" type="q9:ModelStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfPropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfPropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true" type="q9:PropertyStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfstring

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

The **ArrayOfstring** complex type represents a list of **xs:string** as specified in [[XMLSCHEMA2]](http://go.microsoft.com/fwlink/?LinkId=90610).

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

**string:** An element in the list.

#### ArrayOfTypeDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfTypeDescriptorStruct** complex type is a list of complex types, each of which represents a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

1. <xs:complexType name="ArrayOfTypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
4. </xs:sequence>
5. </xs:complexType>

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

#### ArrayOfunsignedInt

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

The **ArrayOfunsignedInt** complex type represents a list of unsigned **xs:unsignedInt** as specified in [[XMLSCHEMA2]](http://go.microsoft.com/fwlink/?LinkId=90610).

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

**unsignedInt:** An element in the list.

#### AssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationGroupStruct** complex type contains information about an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). Each [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) referenced by the [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) contained by the **AssociationGroup** is identified by the values in the same index of the following lists:

* associationEntityNames
* associationEntityNamespaces
* associationNames
* associationIds

1. <xs:complexType name="AssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNames" nillable="true" type="q12:ArrayOfstring"/>
6. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q12:ArrayOfstring"/>
7. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationIds" nillable="true" type="q12:ArrayOfunsignedInt"/>
8. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationNames" nillable="true" type="q12:ArrayOfstring"/>
9. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

**associationEntityNames:** A list containing the names of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that contain the **Associations** referenced by the **AssociationReferences** contained by the **AssociationGroup**. If the corresponding **Entity** is not active, the values in this list MUST have at least 1 and at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

**associationIds:** A list containing the [**MetadataObjectIds**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **Associations** referenced by the **AssociationReferences** contained by the **AssociationGroup**. If the **Entity** containing the corresponding **Association** is active, the values in this list SHOULD[<4>](#Appendix_A_4" \o "Product behavior note 4) be in the range 1-0x7fffffff. Otherwise, the values MUST be zero.

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

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

#### AssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationReferenceStruct** complex type contains information about an [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a).

1. <xs:complexType name="AssociationReferenceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="\_associationName" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
8. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
10. <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
11. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
12. </xs:sequence>
13. </xs:complexType>

**\_associationName:** The name of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) referenced by the **AssociationReference**. The name MUST[<5>](#Appendix_A_5" \o "Product behavior note 5) have at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

**\_entityName:** The name of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) containing the **Association** referenced by the **AssociationReference**. The name MUST[<6>](#Appendix_A_6" \o "Product behavior note 6) have at most 255 Unicode characters.

**\_entityNamespace:** The namespace of the **Entity** containing the **Association** referenced by the **AssociationReference**. The namespace MUST[<7>](#Appendix_A_7" \o "Product behavior note 7) have at most 255 Unicode characters.

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that contains the **AssociationReference**. The value of this element MUST be in the range 1-0x7fffffff.

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

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

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

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

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **Association** referenced by the **AssociationReference**.

#### AssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationStruct** complex type MUST contain information about an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). A namespace at any index of the **sourceEntityNamespaces** element of this complex type MUST be the namespace of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) whose name is at the same index of the **sourceEntityNames** element.

1. <xs:complexType name="AssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MethodInstanceStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="destinationEntityName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true" type="xs:string"/>
8. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNames" nillable="true" type="q12:ArrayOfstring"/>
9. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q12:ArrayOfstring"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) which the **Association** is referenced by. If the **Association** is referenced by an **AssociationGroup**, the value of this element MUST be the **MetadataObjectId** of the referencing **AssociationGroup**. Otherwise, the value of this element MUST be set to zero. The value of this element MUST be in the range 0-0x7fffffff.

**destinationEntityName:** The name of the **Association** destination of the **Association**. This element MUST be present. The value of this element MUST have at least 1 and at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

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

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

#### BdcException

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

The **BdcException** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). This complex type MUST be included only as part of a **SOAP fault,** as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="BdcException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System" base="q1:Exception"/>
4. </xs:complexContent>
5. </xs:complexType>

#### BdcExceptionState

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

The **BdcExceptionState** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="BdcExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>

**InnerExceptionToStringed:** The specific cause of the operation failure.

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

**Message:** A description of the violation.

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

#### ComplexValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ComplexValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
4. <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true" type="xs:anyType"/>
5. <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>

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

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

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

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

#### ConcurrentModificationExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **ConcurrentModificationExceptionState** error complex type contains information about a protocol-server-side error caused by concurrent modification of a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="ConcurrentModificationExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

**MetadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **MetadataObject** that was concurrently modified.

#### DataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **DataClassStruct** complex type MUST contain information about a [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

1. <xs:complexType name="DataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="active" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
9. <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0" name="version" nillable="true" type="q1:Version"/>
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

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

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains this **DataClass**.

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

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

**version:** The version of the **DataClass**, as specified insection [2.2.4.55](#Section_4f636fa7b9b44f789f1e2dea87b2d92d).

#### DefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **DefaultValueStruct** complex type contains details of a [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

1. <xs:complexType name="DefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:ComplexValueStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="methodInstanceName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**methodInstanceId:** [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) 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**. The value of this element MUST have at least 1 and at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

#### DuplicateMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **DuplicateMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by duplication of a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="DuplicateMetadataObjectExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:extension>
9. </xs:complexContent>
10. </xs:complexType>

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

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

#### EntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **EntityStruct** complex type contains information about an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

1. <xs:complexType name="EntityStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:DataClassStruct">
4. <xs:sequence>
5. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
6. <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**cacheUsage:** The **CacheUsage** (section [2.2.5.1](#Section_41b3118a2d1f46bea4b50b43eec5c20b)) of the **Entity**.

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

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

#### ExceededMetadataObjectLimitExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **ExceededMetadataObjectLimitExceptionState** error complex type contains information about a protocol-server-side error caused when a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="ExceededMetadataObjectLimitExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="Limit" type="xs:int"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

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

#### Exception

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

The **Exception** error complex type contains information about a protocol-server-side error. This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

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

**ser:FactoryType:** This specifies a factory class that can deserialize the type. The factory class MUST be part of the known types collection of the DataContractSerializer instance being used. For more information about known types, see [[MSDN-DataContractKnownTypes]](http://go.microsoft.com/fwlink/?LinkId=271611). For more information about DataContractSerializer, see [[MSDN-DataContractSer]](http://go.microsoft.com/fwlink/?LinkId=252297).

#### FilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **FilterDescriptorStruct** complex type contains information about a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

1. <xs:complexType name="FilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
6. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="filterType" type="tns1:FilterType"/>
7. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**filterField:** The [**field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) operated on by the **FilterDescriptor**. This value MUST be either a path (as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.5.5), NULL, or an empty string. This value is understood by the applications using the protocol client, and MUST NOT carry any significance for the protocol server.

**filterType:** The **FilterType** (section [2.2.5.4](#Section_4514e84895584942b535030600d4eea5)) of a **FilterDescriptor**.

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains the **FilterDescriptor**.

#### IdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **IdentifierStruct** complex type contains information about an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0).

1. <xs:complexType name="IdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
7. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) 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**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) text. |
| System.Int16 | A number in the range from –32,768 through 32,767. |
| System.Int32 | A number in the range from –2,147,483,648 through 2,147,483,647. |
| System.Int64 | A number in the range from –9,223,372,036,854,775,808 through 9,223,372,036,854,775,807. |
| System.UInt16 | A number in the range from 0 through 65,535. |
| System.UInt32 | A number in the range from 0 through 4,294,967,295. |
| System.UInt64 | A number in the range from 0 through 18,446,744,073,709,551,615. |
| System.DateTime | A date and time in the range from midnight, January 1, 1 A.D. to 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds. |
| System.TimeSpan | A duration in the range from negative 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 800 nanoseconds through positive 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 700 nanoseconds, with a resolution of 100 nanoseconds. |
| System.Single | A single-precision number in the range from –3.402823e38 to 3.402823e38. |
| System.Double | A double-precision number in the range from –1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN (not a number). |
| System.Decimal | A number in the range from –79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335. |
| System.Char | A Unicode character. |
| System.Byte | A number in the range from 0 through 255. |
| System.SByte | A number in the range from –128 through 127. |
| System.Guid | A [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). |
| System.Boolean | A bit. |

#### InvalidMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **InvalidMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by invalid attributes of a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="InvalidMetadataObjectExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

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

**InvalidMetadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **MetadataObject** that has an invalid attribute.

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

#### InvalidMetadataPropertyExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **InvalidMetadataPropertyExceptionState** error complex type contains information about a protocol-server-side error caused by an invalid **Property** detected in the set of **Properties** of a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="InvalidMetadataPropertyExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="MetadataObjectName" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:extension>
9. </xs:complexContent>
10. </xs:complexType>

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

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

#### InvalidOperationException

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

The **InvalidOperationException** error complex contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="InvalidOperationException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q1:SystemException"/>
4. </xs:complexContent>
5. </xs:complexType>

#### LobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **LobSystemInstanceStruct** complex type contains information about an [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

1. <xs:complexType name="LobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains this **LobSystemInstance**.

#### LobSystemStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **LobSystemStruct** complex type contains information about an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

1. <xs:complexType name="LobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="systemType" type="tns1:SystemType"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

**systemType:** The **SystemType** (section [2.2.5.7](#Section_dfe9a605e24240b79887f4e78e22ab8b)) of the **LobSystem**.

#### LocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **LocalizedNameStruct** complex type contains information about a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423).

1. <xs:complexType name="LocalizedNameStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="vlue" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>

**lcid:** The [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale of the localized name. This element MUST be present.

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that contains the localized name. This element MUST be present. The value of this element MUST be in the range 1-0x7fffffff.[<8>](#Appendix_A_8" \o "Product behavior note 8)

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) that contains the localized name. This element MUST be present. The value MUST be NULL if the Setting is the default Setting. The value MUST NOT be NULL if the Setting is not the default Setting.

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

#### MetadataException

**Namespace:** Microsoft.BusinessData.SharePoint

The **MetadataException** error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) constraint in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). This complex type MUST be included only as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="MetadataException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
4. <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>

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

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

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

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

**metadataObjectTypeName:** The type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) being accessed when the error occurred.

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

#### MetadataObjectNotFoundExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **MetadataObjectNotFoundExceptionState** error complex type contains information about a protocol-server-side error caused when a requested [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) is not found. This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="MetadataObjectNotFoundExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:extension>
8. </xs:complexContent>
9. </xs:complexType>

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

#### MetadataObjectStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **MetadataObjectStruct** complex type contains the attributes of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

1. <xs:complexType name="MetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
4. <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
7. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>

**id:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **MetadataObject**, if the **MetadataObject** already exists in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). Otherwise, this value MUST be zero. The value of this element MUST be in the range 0-0x7fffffff.

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

| Value | Description |
| --- | --- |
| false | The **MetadataObject** is infrequently used. |
| true | The **MetadataObject** is frequently used. |

**name:** The name of the **MetadataObject**. This element MUST be present. The value of this element MUST have at least 1 and at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **MetadataObject**. This element MUST be present.

#### MethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **MethodInstanceStruct** complex type contains information about a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

1. <xs:complexType name="MethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
7. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
8. <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:extension>
11. </xs:complexContent>
12. </xs:complexType>

**isDefault:** Specifies whether the **MethodInstance** is the default among the **MethodInstances** of the same type that are contained by the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains this **MethodInstance**. The value MUST be in the following table.

| Value | Description |
| --- | --- |
| false | The **MethodInstance** is not the default. |
| true | The **MethodInstance** is the default. |

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains the **MethodInstance**.

**methodInstanceType:** The type of the **MethodInstance**. This element MUST be present. The value of this element MUST NOT be NULL. The value MUST be a **MethodInstanceType** (section [2.2.5.5](#Section_02d38ccff3384b27aa84854b84294d0d)).

**returnTypeDescriptorId:** The **MetadataObjectId** of the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of the **MethodInstance**. This element MUST be present.

#### MethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **MethodStruct** complex type contains information about a [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

1. <xs:complexType name="MethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
7. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that contains the **Method**.

**isStatic:** Specifies whether the **Method** is associated with an [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b). 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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) operation that is represented by this **Method**. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, a LOB system operation named "GetCus\_1" can be represented by a **Method** named "Get Customer". The **lobName** element of this **Method** needs to be set to "GetCus\_1".

#### ModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ModelStruct** complex type contains information about a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

1. <xs:complexType name="ModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence/>
5. </xs:extension>
6. </xs:complexContent>
7. </xs:complexType>

#### PackageFormatExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **PackageFormatExceptionState** error complex type contains information about a protocol-server-side error caused when specified [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) does not conform to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) or the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] has invalid configuration of [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) or their attributes. This complex type MUST only be included as part of a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

1. <xs:complexType name="PackageFormatExceptionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="ParseErrors" nillable="true" type="q12:ArrayOfstring"/>
5. <xs:element xmlns:q4="Microsoft.BusinessData.SharePoint" minOccurs="0" name="SerializedInnerSystemException" nillable="true" type="q4:MetadataException"/>
6. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>

**Message:** A description of the error.

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

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

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

#### ParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ParameterStruct** complex type contains information about a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

1. <xs:complexType name="ParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="direction" type="tns1:DirectionType"/>
6. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
8. <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:extension>
11. </xs:complexContent>
12. </xs:complexType>

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

**methodId:** Specifies the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains the **Parameter**.

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

**rootTypeDescriptorId:** Specifies the **MetadataObjectId** of the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the **Parameter**.

#### PropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="PropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:ComplexValueStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:extension>
11. </xs:complexContent>
12. </xs:complexType>

**metadataObjectId:** This element contains the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that contains this **Property**.

**name:** This element contains the name of the **Property**. The value MUST be unique among the names of **Properties** in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) and the containing MetadataObject.

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

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

#### ProxyGenerationResult

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

The **ProxyGenerationResult** complex type contains information about [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<9>](#Appendix_A_9" \o "Product behavior note 9).

1. <xs:complexType name="ProxyGenerationResult" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
4. <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
5. <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>

**compiledBytes:** The bytes encoded with [**base64 encoding**](#gt_179b9392-9019-45a3-880b-26f6890522b7) that constitute the **Business Logic Modules**.

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

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

#### SafetyNetStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **SafetyNetStruct** complex type represents a single [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) that encapsulates configuration information to support implementation-specific time-and-space-limiting algorithms in the protocol client when running operations against a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286). For example, an implementation of the protocol that reads [**MetadataModels**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) and uses them to run operations against an LOB system could limit the number of concurrent operations against the LOB system, abort an operation after a certain amount of time has expired, or reject operations that read or write more than a specific quantity of data.

1. <xs:complexType name="SafetyNetStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
4. <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
5. <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
6. <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
7. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" minOccurs="0" name="throttleScope" type="tns3:ThrottleScope"/>
8. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" minOccurs="0" name="throttleType" type="tns3:ThrottleType"/>
9. </xs:sequence>
10. </xs:complexType>

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

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

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

**proxyId:** An implementation-specific non-empty [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) used to group the set of throttle configuration settings so that multiple instances of protocol clients can use the same protocol server and have their implementation limited by differing amounts. For example, a search crawler crawling an LOB can be enabled to make more simultaneous calls and query larger quantities of data than a Web server used by interactive users against the same LOB.

An [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b) designates a fallback throttle configuration setting. For a given combination of **ThrottleScope** (section [2.2.5.8](#Section_30b3f706b26c446892e2366c1c45bd93)) and **ThrottleType** (section [2.2.5.9](#Section_f837cb179cff4d79adabcbc3542ee30c)), the protocol server MUST use the fallback throttle configuration setting corresponding to the runtime values of **ThrottleScope** and **ThrottleType**, if a throttle configuration setting corresponding to the runtime values of **ThrottleScope**, **ThrottleType** and **ProxyId** does not exist.

**throttleScope:** The **ThrottleScope** (section [2.2.5.8](#Section_30b3f706b26c446892e2366c1c45bd93))which specifies the type of [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to which a throttle configuration setting is applied.

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

#### TypeDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **TypeDescriptorStruct** complex type contains information about a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

1. <xs:complexType name="TypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexContent mixed="false">
3. <xs:extension base="q9:MetadataObjectStruct">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="associationReferenceName" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
10. <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
11. <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
12. <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
13. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
14. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
15. <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
16. <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true" type="xs:string"/>
17. <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true" type="xs:string"/>
18. <xs:element minOccurs="0" name="identifierReferenceName" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
21. <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
22. <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
23. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
24. </xs:sequence>
25. </xs:extension>
26. </xs:complexContent>
27. </xs:complexType>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Association** contained by an active [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb), the value of this element MUST be the **MetadataObjectId** of the referenced **Association**. Otherwise, the value MUST be zero. The value of this element MUST be in the range 0-0x7fffffff.

**associationReferenceEntityName:** The name of the **Entity** that contains the **Association** referenced by the **TypeDescriptor**. If the **TypeDescriptor** references an **Association** of an **Entity** that is not active, the value MUST be the name of the **Entity** that contains the referenced **Association**. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

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

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

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

**containsFilterDescriptor:** Indicates whether the **TypeDescriptor** or any of its descendants has an associated [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). This value MUST be set to "true" if the **TypeDescriptor** has an associated **FilterDescriptor** or any of its descendants has an associated **FilterDescriptor**. Otherwise, this value MUST be set to "false".

**containsIdentifier:** Indicates whether the **TypeDescriptor** or any of its descendants references an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0). This value MUST be set to "true" if the **TypeDescriptor** references an **Identifier** or any of its descendants references an **Identifier**. Otherwise, the value MUST be set to "false".

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

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

**flags:** The **TypeDescriptorFlags** (section [2.2.5.10](#Section_d31c3469b9134943b0968b0056d238fe)) of the **TypeDescriptor**.

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

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

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

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

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

**parameterId:** The **MetadataObjectId** of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that contains the **TypeDescriptor**.

**parentTypeDescriptorId:** The **MetadataObjectId** of the parent **TypeDescriptor** that contains the **TypeDescriptor**. If the **TypeDescriptor** is a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010), the value MUST be set to zero. Otherwise, the value MUST be the **MetadataObjectId** of the parent **TypeDescriptor** that contains the **TypeDescriptor**. The value of this element MUST be in the range 0-0x7fffffff.

**serializedRules:** Rules to apply to the values in the data structure corresponding to the **TypeDescriptor**. If there are no rules to be applied, the value MUST be NULL or the empty string (""). If there are rules to be applied, the value MUST be a rules structure[<10>](#Appendix_A_10" \o "Product behavior note 10). The following is the ABNF notation as specified in [[RFC5234]](http://go.microsoft.com/fwlink/?LinkId=123096) for the rules structure.

1. rules = rule \*( %x00 rule)
2. rule = convertRule / normalizeRule
3. convertRule = %x54 fromType HTAB toType CRLF Culture
4. normalizeRule = %x44 ( local / unspecified / UTC)
5. UTC = %x42
6. local = %x43
7. unspecified = %x44
8. fromType = AssemblyQualifiedName
9. toType = AssemblyQualifiedName

**Culture:** Implementation-specific**[<11>](#Appendix_A_11" \o "Product behavior note 11)** name of the culture.

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

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

**LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** MUST be as specified in [[MS-NRTP]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-NRTP%5d.pdf#Section_3acb31b0b8734aaf85039727ec40fbec) section [2.2.1.3](http://msdn.microsoft.com/en-us/library/f236e979-38fb-47d0-9e6f-3c24f12480ac/).

**TypeName**: The name of the data type of the value[<12>](#Appendix_A_12" \o "Product behavior note 12). The format is as specified in [MS-NRTP] section [2.2.1.2](http://msdn.microsoft.com/en-us/library/ece5002e-2076-49a8-9e19-ff6804a95d43/).

The rules MUST be stored with their order of execution from left to right, where the leftmost rule is executed first. Occurrence of a **convertRule** element indicates that the protocol client MUST interpret this rule as a cast between **fromType** and **toType**. Occurrence of a **normalizeRule** element indicates that the protocol client MUST interpret this rule as converting the time zone of a time value to [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7) from the time zone specified. The specified time zone values are indicated by values "UTC", "local", and "unspecified", which correspond to UTC time zone, local time zone, and UTC time zone without time zone information, respectively.

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

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

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

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

**TypeName**: The name of the data type of the value[<13>](#Appendix_A_13" \o "Product behavior note 13). The format is as specified in [MS-NRTP] section 2.2.1.2.

* If the previous condition is not met, and if the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) containing the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) of the **Parameter** that contains this **TypeDescriptor** has type specified as "Custom", and if the module associated with the **LobSystem** for the purposes of communicating with the corresponding LOB system, which is identified by the value of the **LobSystem** contained **Property** with name "SystemUtilityTypeName" and type "System.String", the specified module MUST be used for the purpose of mapping the value of the **typeName** element to a data type.
* If the previous conditions are not met, an implementation-specific[<14>](#Appendix_A_14" \o "Product behavior note 14) module MUST be used.

#### Version

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

The **Version** complex type MUST contain information about the version of a [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

1. <xs:complexType name="Version" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element name="\_Build" type="xs:int"/>
4. <xs:element name="\_Major" type="xs:int"/>
5. <xs:element name="\_Minor" type="xs:int"/>
6. <xs:element name="\_Revision" type="xs:int"/>
7. </xs:sequence>
8. </xs:complexType>

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

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

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

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

### Simple Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions defined by this specification. XML schema simple type definitions that are specific to a particular operation are described with the operation.

| Simple type | Description |
| --- | --- |
| **CacheUsage** | The **CacheUsage** simple type specifies how the protocol client accesses [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache **EntityInstance** data, the protocol client MUST ignore this value. |
| **char** | The **char** simple type represents a [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) character. This type MUST NOT be used by this protocol. |
| **DirectionType** | The **DirectionType** simple type specifies the direction of an argument represented by a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) for a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) operation. |
| **FilterType** | The **FilterType** simple type specifies the type of the filter represented by the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |
| **MethodInstanceType** | The **MethodInstanceType** simple type contains information about the type of a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| **PackageContents** | The **PackageContents** simple type specifies a subset of the types of data contained by a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). |
| **SystemType** | The **SystemType** simple type specifies the type of line-of-business (LOB) system that a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) is representing. |
| **ThrottleScope** | The **ThrottleScope** simple type specifies the type of LobSystem to which a [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) is applied. |
| **ThrottleType** | The **ThrottleType** simple type specifies the throttle configuration setting that is used to restrict operations performed on the line-of-business (LOB) system. |
| **TypeDescriptorFlags** | The **TypeDescriptorFlags** simple type contains information about the characteristics of the data stored in a data structure represented by a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). |

#### CacheUsage

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

The **CacheUsage** simple type specifies how the protocol client accesses [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache **EntityInstance** data, the protocol client MUST ignore this value.

1. <xs:simpleType name="CacheUsage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Default"/>
4. <xs:enumeration value="Online"/>
5. <xs:enumeration value="Cached"/>
6. <xs:enumeration value="Offline"/>
7. </xs:restriction>
8. </xs:simpleType>

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

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

#### char

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

The **char** simple type represents a [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) character. This type MUST NOT be used by this protocol.

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

#### 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**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) for a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) operation.

1. <xs:simpleType name="DirectionType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="In"/>
4. <xs:enumeration value="Out"/>
5. <xs:enumeration value="InOut"/>
6. <xs:enumeration value="Return"/>
7. </xs:restriction>
8. </xs:simpleType>

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

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

#### 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**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

1. <xs:simpleType name="FilterType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Comparison"/>
4. <xs:enumeration value="LastId"/>
5. <xs:enumeration value="Limit"/>
6. <xs:enumeration value="PageNumber"/>
7. <xs:enumeration value="Password"/>
8. <xs:enumeration value="SsoTicket"/>
9. <xs:enumeration value="Timestamp"/>
10. <xs:enumeration value="UserContext"/>
11. <xs:enumeration value="Username"/>
12. <xs:enumeration value="UserProfile"/>
13. <xs:enumeration value="Wildcard"/>
14. <xs:enumeration value="Input"/>
15. <xs:enumeration value="Output"/>
16. <xs:enumeration value="InputOutput"/>
17. <xs:enumeration value="Batching"/>
18. <xs:enumeration value="BatchingTermination"/>
19. <xs:enumeration value="UserCulture"/>
20. <xs:enumeration value="ActivityId"/>
21. <xs:enumeration value="Sorting"/>
22. </xs:restriction>
23. </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**](#gt_0e1d3c5d-a93f-4644-8a44-4ba39602b571). |
| LastId | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**LastIdFilter**](#gt_6ae3980b-b78f-46ea-9565-160b5e09ef30). |
| Limit | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**LimitFilter**](#gt_69630649-660f-43be-abf8-6ca1c035e5d5). |
| PageNumber | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**PageNumberFilter**](#gt_ec76796a-5fa6-47fe-8849-362cec5ec00e). |
| Password | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**PasswordCredentialFilter**](#gt_bc111c93-fed3-4431-9667-6ec8be54b44d). |
| SsoTicket | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**SsoTicketFilter**](#gt_3646afe0-642d-40f3-9b7a-d5f726373c5f). |
| Timestamp | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e). |
| UserContext | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**UserContextFilter**](#gt_6b47b859-db14-492e-8c7d-3c0a50a2dc2d). |
| Username | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**UsernameCredentialFilter**](#gt_76b0474c-5976-4cc5-9d4c-071455e798c1). |
| UserProfile | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**UserProfileFilter**](#gt_fcb6ed3e-871a-4791-be14-4bfec4acd5ce). |
| Wildcard | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**WildcardFilter**](#gt_93ecd2be-579f-4765-bc4a-b2051c4c20d0). |
| Input | Indicates that the protocol client MUST interpret the **FilterDescriptor** as an [**InputFilter**](#gt_ae1c3374-e9f8-4e85-ae0b-0c64c7d52219). |
| Output | Indicates that the protocol client MUST interpret the **FilterDescriptor** as an [**OutputFilter**](#gt_de05f7d5-5b2e-44a5-8596-5db2b731fa0d). |
| InputOutput | Indicates that the protocol client MUST interpret the **FilterDescriptor** as an [**InputOutputFilter**](#gt_27d86f12-7aff-4732-b840-c0de64f8ad71). |
| Batching | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**BatchingPositionFilter**](#gt_c762bec1-fc1f-499f-bc9f-5f592b76b631). |
| BatchingTermination | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**BatchingTerminationFilter**](#gt_9164690b-e9fd-49d0-9773-210d84b4f3c6). |
| UserCulture | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a [**UserCultureFilter**](#gt_054be4df-c867-4b01-98e2-179475570b9b). |
| ActivityId | Indicates that the protocol client MUST interpret the **FilterDescriptor** as an [**ActivityTrackingFilter**](#gt_66ced5ab-146b-4597-aaee-5622a6ab3067). |
| Sorting | Indicates that the protocol client MUST interpret the **FilterDescriptor** as a **SortingFilter**. |

#### MethodInstanceType

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

The **MethodInstanceType** simple type contains information about the type of a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

1. <xs:simpleType name="MethodInstanceType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Finder"/>
4. <xs:enumeration value="SpecificFinder"/>
5. <xs:enumeration value="GenericInvoker"/>
6. <xs:enumeration value="IdEnumerator"/>
7. <xs:enumeration value="Scalar"/>
8. <xs:enumeration value="AccessChecker"/>
9. <xs:enumeration value="Creator"/>
10. <xs:enumeration value="Updater"/>
11. <xs:enumeration value="Deleter"/>
12. <xs:enumeration value="ChangedIdEnumerator"/>
13. <xs:enumeration value="DeletedIdEnumerator"/>
14. <xs:enumeration value="AssociationNavigator"/>
15. <xs:enumeration value="Associator"/>
16. <xs:enumeration value="Disassociator"/>
17. <xs:enumeration value="StreamAccessor"/>
18. <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
19. <xs:enumeration value="BulkSpecificFinder"/>
20. <xs:enumeration value="BulkAssociatedIdEnumerator"/>
21. <xs:enumeration value="BulkAssociationNavigator"/>
22. <xs:enumeration value="BulkIdEnumerator"/>
23. <xs:enumeration value="EventSubscriber"/>
24. <xs:enumeration value="EventUnsubscriber"/>
25. </xs:restriction>
26. </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**](#gt_7d0c8796-81a5-4bf3-bce3-de23859223e0). |
| SpecificFinder | Indicates that the protocol client MUST interpret the MethodInstance as a [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) This type of **MethodInstance** requires an input. |
| GenericInvoker | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**GenericInvoker**](#gt_e52cf1cb-b958-498e-8226-1643bbc09364). |
| IdEnumerator | Indicates that the protocol client MUST interpret the **MethodInstance** as an [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533). |
| Scalar | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**Scalar**](#gt_116cc919-5d69-4572-9a76-8864828651fb). |
| AccessChecker | Indicates that the protocol client MUST interpret the **MethodInstance** as an [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740). This type of **MethodInstance** requires an input. |
| Creator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**Creator**](#gt_5b81c8fe-25fa-4580-adfb-63e606e17f04). |
| Updater | Indicates that the protocol client MUST interpret the **MethodInstance** as an [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed). This type of **MethodInstance** requires an input. |
| Deleter | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**Deleter**](#gt_d2fd6788-1494-4545-a132-8fe3978e63a9). This type of **MethodInstance** requires an input. |
| ChangedIdEnumerator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4). This type of **MethodInstance** requires an input. |
| DeletedIdEnumerator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4). This type of **MethodInstance** requires an input. |
| AssociationNavigator | Indicates that the protocol client MUST interpret the **MethodInstance** as an [**AssociationNavigator**](#gt_408814a8-693c-4213-8e7a-451f9ef2f44c). This type of **MethodInstance** requires an input. |
| Associator | Indicates that the protocol client MUST interpret the **MethodInstance** as an [**Associator**](#gt_492ed21f-01e3-49fb-8db6-6f871650cb13). This type of **MethodInstance** requires an input. |
| Disassociator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**Disassociator**](#gt_944ed1d9-1520-4e99-bdef-ebd62839a326). This type of **MethodInstance** requires an input. |
| StreamAccessor | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf). This type of **MethodInstance** requires an input. |
| BinarySecurityDescriptorAccessor | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**BinarySecurityDescriptorAccessor**](#gt_416ae112-0853-4d8b-b27b-381cb1e1a89f). This type of **MethodInstance** requires an input. |
| BulkSpecificFinder | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**BulkSpecificFinder**](#gt_47a83bff-2845-46da-8fdd-91824b8302fc). This type of **MethodInstance** requires an input. |
| BulkAssociatedIdEnumerator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**BulkAssociatedIdEnumerator**](#gt_6561079b-45a7-47de-98da-7e3bc5b9029a). This type of **MethodInstance** requires an input. |
| BulkAssociationNavigator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70). This type of **MethodInstance** requires an input. |
| BulkIdEnumerator | Indicates that the protocol client MUST interpret the **MethodInstance** as a [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066), This type of **MethodInstance** requires an input. |
| EventSubscriber | Indicates that the protocol client MUST interpret the **MethodInstance** as a **EventSubscriber**. This type of **MethodInstance** requires an input. |
| EventUnsubscriber | Indicates that the protocol client MUST interpret the **MethodInstance** as a **EventUnsubscriber**. This type of **MethodInstance** requires an input. |

#### PackageContents

**Namespace:** Microsoft.SharePoint.BusinessData

The **PackageContents** simple type specifies a subset of the types of data contained by a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

1. <xs:simpleType name="PackageContents" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="Model"/>
7. <xs:enumeration value="LocalizedNames"/>
8. <xs:enumeration value="Permissions"/>
9. <xs:enumeration value="Properties"/>
10. <xs:enumeration value="InlineProxies"/>
11. <xs:enumeration value="All"/>
12. </xs:restriction>
13. </xs:simpleType>
14. </xs:list>
15. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| None | No data. This value is a composite that indicates that Model, LocalizedNames, Permissions, Properties, and InlineProxies were not specified. |
| Model | The [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the **MetadataModel**. |
| LocalizedNames | The [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) corresponding to the **MetadataObjects** contained by the **MetadataModel**. |
| Permissions | The [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) corresponding to the MetadataObjects contained by the **MetadataModel**. |
| Properties | The **Properties** corresponding to the MetadataObjects contained by the **MetadataModel**. |
| InlineProxies | The [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) associated with the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) contained by the MetadataModel. |
| All | The **MetadataObjects** contained by the **MetadataModel**, along with their localized names, **Properties**, and ACEs, in addition to the **Business Logic Modules** associated with the **LobSystems** contained by the **MetadataModel**. This value is a composite that indicates that **Model**, **LocalizedNames**, **Permissions**, **Properties**, and **InlineProxies** were all specified. |

#### SystemType

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

The **SystemType** simple type specifies the type of [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) that a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) is representing.

1. <xs:simpleType name="SystemType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Database"/>
4. <xs:enumeration value="WebService"/>
5. <xs:enumeration value="Custom"/>
6. <xs:enumeration value="Wcf"/>
7. <xs:enumeration value="DotNetAssembly"/>
8. <xs:enumeration value="OData"/>
9. </xs:restriction>
10. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| Database | The represented line-of-business (LOB) system is a database. |
| WebService | The represented line-of-business (LOB) system is a [**Web service**](#gt_a96bfb18-c329-40f5-89fd-df7a94b89882). |
| Custom | The represented line-of-business (LOB) system has business logic external to the protocol implementation that manages the connection and data transfer. |
| Wcf | The represented line-of-business (LOB) system is a service for which the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) URI, the binding, and the contract are specified. |
| DotNetAssembly | The represented line-of-business (LOB) system is a [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).[<15>](#Appendix_A_15" \o "Product behavior note 15) |
| OData | The represented line-of-business (LOB) system is an [**OData service**](#gt_670aff3a-1074-4f55-adf1-7b6a10f00830). |

#### ThrottleScope

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

The **ThrottleScope** simple type specifies the type of [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to which a [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) is applied.

1. <xs:simpleType name="ThrottleScope" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Global"/>
4. <xs:enumeration value="Database"/>
5. <xs:enumeration value="WebService"/>
6. <xs:enumeration value="Wcf"/>
7. <xs:enumeration value="Custom"/>
8. <xs:enumeration value="OData"/>
9. </xs:restriction>
10. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| Global | This setting is used globally, independent of the type of the **LobSystem**. |
| Database | This setting is used for **LobSystems** that have a **SystemType** (section [2.2.5.7](#Section_dfe9a605e24240b79887f4e78e22ab8b)) value of "Database". |
| WebService | This setting is used for **LobSystems** that have a **SystemType** (section 2.2.5.7)value of "WebService". |
| Wcf | The setting is used for **LobSystems** that have a **SystemType** (section 2.2.5.7) value of "Wcf". |
| Custom | This setting is used for **LobSystems** that have a **SystemType** (section 2.2.5.7) value of "Custom". |
| OData | The setting is used for **LobSystems** that have a **SystemType** (section 2.2.5.7) value of "OData". |

#### ThrottleType

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

The **ThrottleType** simple type specifies the [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) that is used to restrict operations performed on the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).

1. <xs:simpleType name="ThrottleType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="None"/>
4. <xs:enumeration value="Items"/>
5. <xs:enumeration value="Size"/>
6. <xs:enumeration value="Connections"/>
7. <xs:enumeration value="Timeout"/>
8. <xs:enumeration value="MetadataSize"/>
9. <xs:enumeration value="ModelSize"/>
10. <xs:enumeration value="MaxNumberOfModels"/>
11. </xs:restriction>
12. </xs:simpleType>

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

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

#### 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**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

1. <xs:simpleType name="TypeDescriptorFlags" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="CreatorField"/>
7. <xs:enumeration value="UpdaterField"/>
8. <xs:enumeration value="PreUpdaterField"/>
9. <xs:enumeration value="IsCollection"/>
10. <xs:enumeration value="ReadOnly"/>
11. <xs:enumeration value="Significant"/>
12. <xs:enumeration value="IsSortInput"/>
13. </xs:restriction>
14. </xs:simpleType>
15. </xs:list>
16. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| None | No flags exist. |
| CreatorField | This **TypeDescriptor** MUST be considered a [**field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for calling a [**Creator**](#gt_5b81c8fe-25fa-4580-adfb-63e606e17f04). |
| UpdaterField | This **TypeDescriptor** MUST be considered a field for calling an [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed). |
| PreUpdaterField | This **TypeDescriptor** MUST be used to send the latest value received from the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) corresponding to the field with the same name as this **TypeDescriptor** when calling an **Updater**. |
| IsCollection | This **TypeDescriptor** MUST be interpreted as a collection of data structures. |
| ReadOnly | The protocol client MUST prevent values in the data structures corresponding to this **TypeDescriptor** from being modified. |
| Significant | The protocol client MUST use the values in the data structures corresponding to this **TypeDescriptor** when comparing values between structures or creating hash codes for comparison. When this flag is not set, the protocol client MUST ignore the values in the data structures corresponding to this **TypeDescriptor** when comparing values between structures or creating hash codes for comparison. |
| IsSortInput | This protocol client MUST use the values in the data structure corresponding to this **TypeDescriptor** as the input for the **SortingFilter**. When this flag is not set on any **TypeDescriptor**, the **SortingFilter** must be ignored. |

### Attributes

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute definitions.

### Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) group definitions.

### Attribute Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute group definitions.

# Protocol Details

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) 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]](http://go.microsoft.com/fwlink/?LinkId=90372), section 10, Status Code Definitions.

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

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

## Server Details

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

In any operation request, the protocol client MAY[<16>](#Appendix_A_16" \o "Product behavior note 16) request that the protocol server perform additional security checks by including a [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) with Name "CameThroughRemoteAdminService", Namespace "Bdc", type "Bool", and value "true". The effect of including this header on server behavior is described for each operation in the following sections.

In any operation request, the protocol client MAY[<17>](#Appendix_A_17" \o "Product behavior note 17) request that the protocol server acknowledge the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context it is operating as a privileged user by including a SOAP header with Name "IsTenantAdmin", Namespace "Bdc", type "Bool", and value "true". The protocol server MUST fulfill the request acting as though the privileged user were authorized to edit or set permissions on any [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) required by the operation.

### Abstract Data Model

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

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

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

The implementations of the basic **Create**, **Read**, **Update**, and **Delete** stored procedures insert, read, update, or delete items in each of these lists in which the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) serves as the primary identifier.

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

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

**Property**

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

**LocalizedName**

* Represents a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423).
* Has the following attributes: **lcid**, **metadataObjectId**, **settingId**, and **vlue**.
* No containment or referential relationships.

**AccessControlEntry**

* Represents an [**ACE**](#gt_b581857f-39aa-4979-876b-daba67a40f15).
* Has the following attributes: **principalBinaryForm**, **principalDisplayName**, **principalName**, and **rights**.
* No containment or referential relationships.

**MetadataObject**

* Represents a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, and **partitionId**.
* Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.

**Model**

* Represents a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, and **partitionId**.
* Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
* References zero or more [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) and zero or more [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

**LobSystem**

* Represents a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, and **systemType**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **DataClasses**, zero or more **Entities**, zero or more [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1), and zero or more [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).

**LobSystemInstance**

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

**DataClass**

* Represents a **DataClass**.
* Has the following attributes: **id**, **name**, **isCached**, **Version**, **objectVersion**, **partitionId**, **active**, **lobSystemId**, **modelId**, and **namespace**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219), and zero or more [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).
* Contained by exactly one **LobSystem**.
* At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

**Entity**

* Represents an **Entity**.
* Has the following attributes: **id**, **Name**, **isCached**, **Version**, **objectVersion**, **partitionId**, **active**, **lobSystemId**, **modelId**, **namespace**, **cacheUsage**, **description**, and **estimatedInstanceCount**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **Methods**, zero or more **MethodInstances**, zero or more [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0), zero or more [**Actions**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372), and zero or more [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).
* Contained by exactly one **LobSystem**.
* References an **Action** as its default **Action**.
* At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

**Identifier**

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

**Method**

* Represents a **Method**.
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **lobName**, **isStatic**, and **entityId**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb), zero or more [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9), zero or more **MethodInstances**, and zero or more [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).
* Contained by either exactly one **Entity** or exactly one **DataClass**.

**MethodInstance**

* Represents a **MethodInstance**.
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **methodId**, **methodInstanceType**, **returnTypeDescriptorId**, and **isDefault**.
* Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
* References zero or one [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).
* Contained by exactly one **Method**.
* Contained by either exactly one **Entity** or exactly one **DataClass**.
* If the **MethodInstance** has a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08), the **MethodInstance** references the **TypeDescriptor** that corresponds to the **ReturnTypeDescriptor**. Otherwise, the **MethodInstance** references no **TypeDescriptors**.

**Association**

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

**Parameter**

* Represents a **Parameter**.
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **direction**, **partitionId**, **methodId**, **ordinalNumber**, and **rootTypeDescriptorId**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **TypeDescriptors**.
* Contained by exactly one **Method**.
* If the **Parameter** contains one or more **TypeDescriptors**, exactly one **TypeDescriptor** is not contained by any other **TypeDescriptor**. The **TypeDescriptor** that is not contained by any other **TypeDescriptor** corresponds to the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the **Parameter**.

**TypeDescriptor**

* Represents a **TypeDescriptor**.
* Has the following attributes: **id**, **name**, **isCached**, **objectversion**, **partitionId**, **associationId**, **associationReferenceEntityName**, **associationReferenceEntityNamespace**, **associationReferenceName**, **childrenContainRules**, **containsFilterDescriptor**, **containsIdentifier**, **containsReadOnly**, **filterDescriptorId**, **flags**, **identifierId**, **identifierReferenceEntityName**, **identifierReferenceEntityNamespace**, **identifierReferenceName**, **lobName**, **parameterId**, **parentTypeDescriptorId**, **serializedRules**, and **typeName**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **TypeDescriptors**, and zero or more [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe).
* References zero or one **Identifiers**, zero or one **Associations**, and zero or one **FilterDescriptors**.
* If the **TypeDescriptor** references a **FilterDescriptor**, that **FilterDescriptor** references the **TypeDescriptor**.
* Contained by exactly one **Parameter** and zero or one **TypeDescriptor**.

**FilterDescriptor**

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

**DefaultValue**

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

**AssociationGroup**

* Represents an **AssociationGroup**.
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **associationEntityNames**, **associationEntityNamespaces**, **entityId**, **associationIds**, and **associationNames**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a).
* Contained by exactly one **Entity**.

**AssociationReference**

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

**Action**

* Represents an **Action**.
* Has the following attributes: **id**, **name**, **isCached**, **objectVersion**, **partitionId**, **entityId**, **imageUrl**, **isOpenedInNewWindow**, **position**, and **url**.
* Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).
* Contained by exactly one **Entity**.

**ActionParameter**

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

**CacheVersionStamp**

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

**ThrottleConfigurationSetting**

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

The permissions that apply to a given object are specified by the ACEs it contains. If the given object does not contain any ACEs, the permission that applies to the object that contains the given object are used instead. If the given object is not contained by any other objects, then the protocol server can assume implementation-specific set of [**security principals**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) have necessary permissions on the object.

### Timers

None.

### Initialization

None.

### Message Processing Events and Sequencing Rules

The protocol client is associated with a metadata [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) (referred to in the following sections as the "protocol client metadata partition") using an implementation-specific mechanism.

The definitions of some operations in this section make use of [**ABNF**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf) representation as specified in [[RFC5234]](http://go.microsoft.com/fwlink/?LinkId=123096).

The specifications of the operations in this section identify the conditions under which the protocol server MUST respond with corresponding error complex types. In addition, if the protocol server encounters an error specific to its implementation, it MAY respond with any fault listed in the WSDL for its operation. If there is a fault listed in the WSDL for an operation but the error table for the operation does not contain the fault, the condition under which the fault is returned by the protocol server is implementation-specific. The responses MUST be formatted as **SOAP faults**, by using error complex types serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). The error complex types are described in the following table.

| Error complex type | Condition |
| --- | --- |
| **ArgumentException** | The protocol server encountered an invalid argument value while performing implementation-specific operations. |
| **ArgumentNullException** | While performing implementation-specific operations, the protocol server encountered a NULL value for an argument that does not accept NULL values. |
| **ArgumentOutOfRangeException** | The protocol server encountered an argument with a value outside the range of acceptable values while performing implementation-specific operations. |
| **BdcExceptionState** | The protocol server encountered an unrecoverable error while performing implementation-specific operations, or encountered a violation of constraints on the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). |
| **InvalidOperationException** | The protocol server attempted an implementation-specific operation that is invalid for the current state of the protocol server. |
| **MetadataException** | The protocol server discovered a violation of a syntactic or semantic constraint on a [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) while performing implementation-specific operations. |
| **PackageFormatExceptionState** | In an implementation-specific operation, the protocol server encountered XML that does not conform to the format specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a), or XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] that has invalid configuration of [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) or their attributes. |

For the following operations, the protocol client MAY[<18>](#Appendix_A_18" \o "Product behavior note 18) specify values for a subset of the elements of the complex types that inherit from the **MethodInstanceStruct** complex type, including **MethodInstanceStruct** 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**](#Section_a95fa255cb1344b1b6e0c66ae87884ae)
* [**ClearLocalizedNames**](#Section_5a8ec68516a0495e8e1f47452984963e)
* [**ClearProperties**](#Section_53cdc549d0d442cc8a9c2bc578630660)
* [**CopyAclAcrossChildren**](#Section_c14a027e03274fc6ab5fff9a5b0dfda4)
* [**CopyAclToSetting**](#Section_6a03297e987243a48367cc74cb72714e)
* [**DeleteNoCascade**](#Section_9151b46acf474d56b0639c9f87454678)
* [**DeleteProxyAssemblyForLobSystem**](#Section_504b5521200440b895a6b3ce7e567bd8)
* [**ExportPackage**](#Section_c3e1b0fb0db64e3193b260260fcc3c4c)
* [**GetAccessControlEntries**](#Section_5874f40371c346eda12bc6fe83be5f0e)
* [**GetAllLocalizedNamesForMetadataObjectStruct**](#Section_cc3d856d5ade49f39495cdc3ded959f9)
* [**GetAllPropertiesForMetadataObjectStruct**](#Section_bcef804056f742d9ace4e56bcdffbfd6)
* [**GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor**](#Section_c83235c13a664034a5a73add8dabe5f9)
* [**GetFieldTypeDescriptorsByMethodInstance**](#Section_698162d2d1d44b988cb613146877bba7)
* [**GetLobSystemDataByLobSystem**](#Section_6c0f7b43e08546d3a554bf31b916a6bf)
* [**GetTypeReflectorTypeNameForParameter**](#Section_3c305a78035e42ae9e43bbc1d3d80700)
* [**ImportPackage**](#Section_7fecdad3cda2465e9ac2f267a4a9d667)
* [**ImportPackageWithProgress**](#Section_b6614c4331e54b8f97a379f31e035c1e)
* [**MetadataObjectCreate**](#Section_ba4a4d73f0cf4135bfd954ebd60fb7e0)
* [**MetadataObjectMergeXml**](#Section_4ae7a35a884849799a954086b130aa32)
* [**MetadataObjectReadXml**](#Section_a140621e776749efac9e73cfb9a9722a)
* [**MetadataObjectWriteXml**](#Section_b2426df7af9c4828be962520590aaa8e)
* [**ModelReadXml**](#Section_add4d7ed599c4a6abff5684b7156ae73)
* [**ReadSlicedXml**](#Section_525c8e33b19248849c7edf844154075e)
* [**RemoveEntityFromModel**](#Section_0e250f99350748cb90a003f40a21a911)
* [**RemoveLocalizedName**](#Section_e76a0c209d8b40d4875b527992861272)
* [**RemoveProperty**](#Section_ec0eb69a29464f8fbc09d9b4fa2f4440)
* [**SaveLocalizedName**](#Section_d9a7810da9a249adba3cde308646b026)
* [**SaveProperty**](#Section_1b6f8e5fdc5e41009dd7f755884163c6)
* [**SetAccessControlEntries**](#Section_53324ef7ba4446038eb391a696987c28)
* [**SetDefaultActionForEntity**](#Section_b0b29e497c024e05b112781eec954fd2)
* [**TypeDescriptorCreate**](#Section_55bd14e68e4e4d2aaa0fc94f46262236)
* [**TypeDescriptorMergeXml**](#Section_6dd2fb614fe746ab8a59a0318dd08a95)
* [**TypeDescriptorReadXml**](#Section_003fea9ca00d4dbba695ecd54bea7d6d)

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

* If the object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the object version MUST be set to zero[<19>](#Appendix_A_19" \o "Product behavior note 19).
* Otherwise, the object version SHOULD[<20>](#Appendix_A_20" \o "Product behavior note 20) be incremented by 1.

| Operation | MetadataObjects |
| --- | --- |
| [Activate](#Section_f767104a226e4dd8af976a08fd630410) | The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) specified by the **entityStruct** element. |
| [AddAssociationReferenceToAssociationGroup](#Section_603145b0e74f4d48a5d3d2445be8c2d7) | The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) specified by the **associationGroupStruct** element. |
| [BulkSwitchActiveOrValidate](#Section_739d51418d7c47b19f78b6a88e1c4e84) | The **Entities** specified by the **entityStructs** element. |
| [Deactivate](#Section_31efa7b1fe504a288bb4ef5162afcad1) | The **Entity** specified by the **entityStruct** element. |
| [DeleteAssociationReferenceFromAssociationGroup](#Section_fd67950f8da249c89174cff80ee114ac) | The **AssociationGroup** that contains the [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) specified by the **associationReferenceStruct** element. |
| [Update](#Section_7d0a3f97234641debe5d47eac1e45b40) | The **MetadataObject** specified by the **metadataObjectStruct** element. |

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

| Operation | Description |
| --- | --- |
| **Activate** | The **Activate** operation activates the specified Entity. |
| **AddAssociationReferenceToAssociationGroup** | The **AddAssociationReferenceToAssociationGroup** operation creates the specified AssociationReference in the specified AssociationGroup. |
| **AddEntityToModel** | The **AddEntityToModel** operation adds a reference to the specified Entity to the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). |
| **AddThrottlingRule** | The **AddThrottlingRule** operation adds the specified[**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0)to themetadata store**.** |
| **BulkSwitchActiveOrValidate** | The **BulkSwitchActiveOrValidate** operation changes the active version of the specified set of Entities or validates the specified **Entities** for the purpose of changing the active versions and identifying related errors. |
| **CheckPathInMethodInstances** | The **CheckPathInMerthodInstances** operation retrieves whether the specified path, which conforms to [MS-BDCMFFS] section 2.1.5.5, corresponds to a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in a [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) of the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of the specified type contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a), along with the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of one such **MethodInstance**, if one exists. |
| **ClearLocalizedNames** | The **ClearLocalizedNames** operation removes all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified MetadataObject from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| **ClearProperties** | The **ClearProperties** operation removes all **Properties** of the specified MetadataObject from the specified Setting. |
| **CopyAclAcrossChildren** | The **CopyAclAcrossChildren** operation clears the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the descendent MetadataObjects of a specified **MetadataObject** and copies the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.  If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, the protocol server MUST NOT change the ACEs of any [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and its descendent **MetadataObjects** if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the **LobSystem**. |
| **CopyAclAcrossChildrenForSetting** | The **CopyAclAcrossChildrenForSetting** operation clears the ACEs in a specified Setting on the descendent MetadataObjects of the specified **MetadataObject** and copies the ACEs in the specified **Setting** on the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.  If the specified **MetadataObject** is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the ACEs of any LobSystem and its descendent **MetadataObjects** if the security principal in whose context the protocol client is operating is not authorized to edit the **LobSystem**. |
| **CopyAclToSetting** | The **CopyAclToSetting** operation deletes the ACEs in the specified non-default Setting of the specified MetadataObject and copies the ACEs in the default **Setting** of the specified **MetadataObject** to the specified **Setting** of the specified **MetadataObject**. |
| **Deactivate** | The **Deactivate** operation sets an active version of an Entity to not active. |
| **Delete** | The **Delete** operation deletes the specified MetadataObject. |
| **DeleteAssociationReferenceFromAssociationGroup** | The **DeleteAssociationReferenceFromAssociationGroup** operation removes an AssociationReference from an AssociationGroup by deleting the **AssociationReference**. |
| **DeleteDefaultValueForTypeDescriptor** | The **DeleteDefaultValueForTypeDescriptor** operation deletes the [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified TypeDescriptor for the specified MethodInstance. |
| **DeleteNoCascade** | The **DeleteNoCascade** operation deletes the specified MetadataObject without deleting the **MetadataObjects** it references. |
| **DeleteProxyAssemblyForLobSystem** | The **DeleteProxyAssemblyForLobSystem** operation deletes a [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<21>](#Appendix_A_21" \o "Product behavior note 21)** associated with the specified LobSystem. |
| **EntityCreate** | The **EntityCreate** operation creates an Entity in the specified LobSystem. The operation MUST copy ACEs from the specified **LobSystem** to the created **Entity**. If a Model is specified, the operation MUST associate the created **Entity** with the specified **Model**. Otherwise, the created **Entity** is not referenced by any **Model**. |
| **ExportPackage** | The **ExportPackage** operation retrieves an XML representation of the following objects from the metadata store:   * MetadataObjects contained by the specified MetadataModel if "Model" value is set for the **packageContents** element. The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) MUST conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. * Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel** if "Model" value is not set for the **packageContents** element. The XML MUST conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.   If the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, and if the specified **MetadataModel** contains LobSystems that the security principal in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason. |
| **GenerateProxyAssemblyForLobSystem** | The **GenerateProxyAssemblyForLobSystem** operation forces the protocol server to create an implementation-specific Business Logic Module[<22>](#Appendix_A_22" \o "Product behavior note 22) for the specified LobSystem to connect to the LOB system described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem**, this operation MUST NOT create another Business Logic Module and MUST complete successfully. |
| **GetAccessControlEntries** | The **GetAccessControlEntries** operation retrieves the ACEs for the specified MetadataObject from the specified Setting. If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is set to "true", the protocol server MUST retrieve ACEs for the specified **MetadataObject** from the default **Setting**. |
| **GetActionById** | The **GetActionById** operation retrieves the specified [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). |
| **GetActionParameterById** | The **GetActionParameterById** operation retrieves the specified [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f). |
| **GetActionParametersForAction** | The **GetActionParametersForAction** operation retrieves the ActionParameters of the specified Action. |
| **GetActionsForEntity** | The **GetActionsForEntity** operation retrieves the Actions of the specified Entity. |
| **GetAllLocalizedNames** | The **GetAllLocalizedNames** operation retrieves all localized names of the specified MetadataObject. |
| **GetAllLocalizedNamesForMetadataObjectStruct** | The **GetAllLocalizedNamesForMetadataObjectStruct** operation retrieves all localized names of the specified MetadataObject for the specified Setting. |
| **GetAllPartitionIds** | The **GetAllPartitionIds** operation retrieves all distinct partition identifiers. |
| **GetAllProperties** | The **GetAllProperties** operation retrieves all **Properties** of the specified MetadataObject and the specified Setting. |
| **GetAllPropertiesForMetadataObjectStruct** | The **GetAllPropertiesForMetadataObjectStruct** operation retrieves all **Properties** of the specified MetadataObject from the specified Setting. |
| **GetAssociationById** | The **GetAssociationById** operation retrieves the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) with the specified MetadataObjectId. |
| **GetAssociationGroupById** | The **GetAssociationGroupById** operation retrieves the AssociationGroup with the specified MetadataObjectId. |
| **GetAssociationGroupsForEntity** | The **GetAssociationGroupsForEntity** operation retrieves the AssociationGroups of the Entity with the specified MetadataObjectId. |
| **GetAssociationMembersInRole** | The **GetAssociationMembersInRole** operation retrieves the source or destination Entities of the specified Association. |
| **GetAssociationReferencesForAssociationGroup** | The **GetAssociationReferencesForAssociationGroup** operation retrieves the AssociationReferences contained by the specified AssociationGroup. |
| **GetAssociationsForDataClass** | The **GetAssociationsForDataClass** operation retrieves the Associations that are contained by the specified DataClass. |
| **GetAssociationsForEntityAndRole** | The **GetAssociationsForEntityAndRole** operation retrieves the Associations that reference the specified Entity as **Association** source or **Association** destination. |
| **GetAssociationsForMethod** | The **GetAssociationsForMethod** operation retrieves the Associations that are contained by the specified [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). |
| **GetCacheInvalidationRecordsSince** | The **GetCacheInvalidationRecordsSince** operation retrieves the cache version stamps, that were modified after the specified time. |
| **GetChildTypeDescriptorsForTypeDescriptor** | The **GetChildTypeDescriptorsForTypeDescriptor** operation retrieves the TypeDescriptors contained by the specified **TypeDescriptor**. |
| **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** | The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** operation retrieves the TypeDescriptors that reference [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) and are descendants of the specified **TypeDescriptor**. A **TypeDescriptor** is a descendent of the specified **TypeDescriptor** if the **TypeDescriptor** that contains the **TypeDescriptor** is also a descendent of the specified **TypeDescriptor** or the **TypeDescriptor** is contained by the specified **TypeDescriptor**.[<23>](#Appendix_A_23" \o "Product behavior note 23) |
| **GetDataClassById** | The **GetDataClassById** operation retrieves the DataClass with the specified MetadataObjectId. |
| **GetDataClassesForSystem** | The **GetDataClassesForSystem** operation retrieves DataClasses contained by the specified LobSystem. |
| **GetDefaultValuesForTypeDescriptor** | The **GetDefaultValuesForTypeDescriptor** operation retrieves the DefaultValues of the specified TypeDescriptor. |
| **GetEntitiesForAssociationAndRole** | The **GetEntitiesForAssociationAndRole** operation retrieves the Entities that perform the role of source or destination for the specified Association. |
| **GetEntitiesForSystem** | The **GetEntitiesForSystem** operation retrieves Entities of the specified LobSystem. |
| **GetEntitiesLikeNameAndNamespace** | The **GetEntitiesLikeNameAndNamespace** operation retrieves the Entities that match the specified wildcard patterns for name and namespace.  An **Entity** matches the pattern specified by **wildcardedName** if, and only if, **wildcardedName** matches the name of the **Entity**, the localized name of the **Entity** with [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) set to zero, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.  An **Entity** matches the pattern specified by **wildcardedNamespace** if, and only if, **wildcardedNamespace** matches the namespace of the **Entity**. |
| **GetEntitiesReferencedByModelId** | The **GetEntitiesReferencedByModelId** operation retrieves Entities that are referenced by the specified Model. |
| **GetEntityById** | The **GetEntityById** operation retrieves the Entity with the specified MetadataObjectId. |
| **GetEntityCount** | The **GetEntityCount** operation retrieves the number of Entities that are contained by the specified LobSystem. |
| **GetEntityNameAndNamespacesForAssociationAndRole** | The **GetEntityNameAndNamespacesForAssociationAndRole** operation retrieves the names and namespaces of Entities that are referenced by the specified Association. Only **Entities** in the specified association role of source or destination are returned. |
| **GetEntityWithNameAndNamespace** | The **GetEntityWithNameAndNamespace** operation retrieves the active Entity with the specified name and namespace in the specified partition. |
| **GetEntityWithNameAndNamespaceAndVersion** | The **GetEntityWithNameAndNamespaceAndVersion** operation retrieves the Entity with the specified name, namespace, and version. |
| **GetFieldTypeDescriptorsByMethodInstance** | The **GetFieldTypeDescriptorsByMethodInstance** operation retrieves TypeDescriptors that correspond to [**fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of the MethodInstance with the specified name in the specified Entity. |
| **GetFilterDescriptorById** | The **GetFilterDescriptorById** operation retrieves the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) with the specified MetadataObjectId. |
| **GetFilterDescriptorsForMethod** | The **GetFilterDescriptorsForMethod** operation retrieves the FilterDescriptors contained by the specified Method. |
| **GetIdentifierById** | The **GetIdentifierById** operation retrieves the Identifier with the specified MetadataObjectId. |
| **GetIdentifiersForEntity** | The **GetIdentifiersForEntity** operation retrieves the Identifiers contained by the specified Entity. |
| **GetImportProgress** | The **GetImportProgress** operation retrieves the progress of an **ImportPackageWithProgress** operation, using the unique identifier provided by the client at the creation of the import operation. |
| **GetLevelForTypeDescriptor** | The **GetLevelForTypeDescriptor** operation retrieves the depth of the specified TypeDescriptor in the **TypeDescriptor** tree. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth zero. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1, plus the depth of the containing **TypeDescriptor**. |
| **GetLobSystemAllAssembliesBytes** | The **GetLobSystemAllAssembliesBytes** operation retrieves the Business Logic Modules associated with the specified LobSystem if the **systemType** element of the specified **LobSystem** is not set to "Custom". If the **systemType** element of the specified **LobSystem** is set to "Custom", the behavior of this operation is implementation-specific[<24>](#Appendix_A_24" \o "Product behavior note 24). |
| **GetLobSystemById** | The **GetLobSystemById** operation retrieves the LobSystem with the specified MetadataObjectId. |
| **GetLobSystemByName** | The **GetLobSystemByName** operation retrieves the specified LobSystem. |
| **GetLobSystemDataByLobSystem** | The **GetLobSystemDataByLobSystem** operation retrieves Business Logic Modules[<25>](#Appendix_A_25" \o "Product behavior note 25) associated with the specified LobSystem. |
| **GetLobSystemInstanceById** | The **GetLobSystemInstanceById** operation retrieves the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) with the specified MetadataObjectId. |
| **GetLobSystemInstancesForLobSystem** | The **GetLobSystemInstancesForLobSystem** operation retrieves the list of LobSystemInstances of the specified LobSystem. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the **LobSystemInstances** that the security principal in whose context the protocol client is operating is authorized to read[<26>](#Appendix_A_26" \o "Product behavior note 26) that are also contained by the specified **LobSystem** are retrieved. |
| **GetLobSystemProxyAssemblyBytesByLobSystemId** | The **GetLobSystemProxyAssemblyBytesByLobSystemId** operation retrieves the implementation-specific Business Logic Module[<27>](#Appendix_A_27" \o "Product behavior note 27) associated with the specified LobSystem. |
| **GetLobSystemsLikeName** | The **GetLobSystemsLikeName** operation retrieves the LobSystems that match the specified wildcard pattern.  If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the **LobSystems** that the security principal in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.  A **LobSystem** matches the wildcard pattern specified by **searchLikeName** if any of the following conditions is true:   * The **searchLikeName** matches the name of the **LobSystem**. * The **searchLikeName** matches the localized name of the **LobSystem** and the **LobSystem**’s localized name has its language code identifier (LCID) set to zero or set to the **LCID** specified by **callerCultureLcid**. |
| **GetLobSystemsReferencedByEntitiesAssociatedWithModel** | The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** operation retrieves the LobSystems referenced by Entities associated with the specified Model. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the **LobSystems** that the security principal in whose context the protocol client is operating is authorized to read[<28>](#Appendix_A_28" \o "Product behavior note 28) that are also referenced by **Entities** associated with the specified **Model** are retrieved. |
| **GetMethodById** | The **GetMethodById** operation retrieves the Method with the specified MetadataObjectId. |
| **GetMethodInstanceById** | The **GetMethodInstanceByID** operation retrieves the MethodInstance with the specified MetadataObjectId. |
| **GetMethodInstancesForDataClass** | The **GetMethodInstancesForDataClass** operation retrieves the MethodInstances contained by the Methods contained by the specified DataClass. |
| **GetMethodInstancesForMethod** | The **GetMethodInstancesForMethod** operation retrieves the MethodInstances contained by the specified Method. |
| **GetMethodsForDataClass** | The **GetMethodsForDataClass** operation retrieves the Methods contained by the specified DataClass. |
| **GetModelById** | The **GetModelById** operation retrieves the Model with the specified MetadataObjectId. |
| **GetModelByName** | The **GetModelByName** operation retrieves the specified Model. |
| **GetModelsByEntityId** | The **GetModelsByEntityId** operation retrieves the Models that reference the specified Entity. |
| **GetModelsByName** | The **GetModelsByName** operation retrieves the Models that match the specified wildcard pattern.  A **Model** matches the wildcard pattern specified by **wildcardedName** if any of the following conditions is true:   * **WildcardedName** matches the name of the **Model**. * **WildcardedName** matches the localized name of the **Model** and the model’s localized name has its LCID set to zero or set to the LCID specified by callerCultureLcid. |
| **GetParameterById** | The **GetParameterById** operation retrieves the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) with the specified MetadataObjectId. |
| **GetParametersForMethod** | The **GetParametersForMethod** operation retrieves the Parameters of the specified Method. |
| **GetRootTypeDescriptorForParameter** | The **GetRootTypeDescriptorForParameter** operation retrieves the root TypeDescriptor of the specified Parameter. |
| **GetServiceApplicationId** | The **GetServiceApplicationId** operation retrieves the unique implementation-specific identifier of a metadata store. |
| **GetSystemUtilityTypeNameForLobSystem** | The **GetSystemUtilityTypeNameForLobSystem** operation retrieves the implementation-specific identifier of the module that executes operations in the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) corresponding to the specified LobSystem. |
| **GetThrottlingRules** | The **GetThrottlingRules** operation retrieves all throttle configuration settings used by the protocol server. |
| **GetTypeDescriptorById** | The **GetTypeDescriptorById** operation retrieves the TypeDescriptor with the specified MetadataObjectId. |
| **GetTypeDescriptorsByNameAndLevelForParameter** | The **GetTypeDescriptorByNameAndLevelForParameter** operation SHOULD[<29>](#Appendix_A_29" \o "Product behavior note 29) retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a TypeDescriptor is defined as follows:   * The level of the root **TypeDescriptor** is set to zero ("0"). * The level of the specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**. |
| **GetTypeDescriptorsForFilterDescriptor** | The **GetTypeDescriptorsForFilterDescriptor** operation retrieves TypeDescriptors referenced by the specified FilterDescriptor. |
| **GetTypeReflectorTypeNameForParameter** | The **GetTypeReflectorTypeNameForParameter** operation retrieves the implementation-specific name of the type of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) of the specified Parameter. |
| **GetXmlSchemaForView** | The **GetXmlSchemaForView** operation is obsolete and MUST NOT be used. |
| **HaveRights** | The **HaveRights** operation retrieves whether the security principal in whose context the protocol client is operating has the specified permission on the specified MetadataObject based on the permissions specified by the ACEs in the specified Setting associated with the specified **MetadataObject**. |
| **ImportPackage** | The **ImportPackage** operation creates the following objects in the metadata store:   * MetadataObjects contained by the specified MetadataModel, along with their **Properties**, localized names, and ACEs, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.1.3.34. If the MetadataModel contains a LobSystem that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all LobSystemInstances contained by that **LobSystem**, along with **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects**, and along with the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. * Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.2.3.28. |
| **ImportPackageWithProgress** | The **ImportPackageWithProgress** operation creates the following objects in the metadata store:   * MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and ACEs, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains a LobSystem that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all LobSystemInstances contained by that **LobSystem** along with **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects**, and along with the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. * Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.   The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the [**GetImportProgress**](#Section_c921c560b8fe4e8991da11a619ab7c61) operation with the specified identifier. |
| **IsMethodInstantiated** | The **IsMethodInstantiated** operation checks whether the specified Method contains at least one MethodInstance. |
| **IsParameterReferencedByMethodInstance** | The **IsParameterReferencedByMethodInstance** operation checks whether the specified Parameter contains any TypeDescriptor that is the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of any MethodInstance contained by the Method containing the **Parameter**. |
| **MetadataObjectCreate** | The **MetadataObjectCreate** operation creates a MetadataObject in the metadata store. If the specified **MetadataObject** is a MetadataCatalog and another **MetadataCatalog** with the same partition as the specified **MetadataCatalog** already exists, this operation MUST NOT change the state of the data in the metadata store[<30>](#Appendix_A_30" \o "Product behavior note 30). |
| **MetadataObjectMergeXml** | The **MetadataObjectMergeXml** operation merges the **Properties**, localized names, and ACEs contained by the specified MetadataModel into the existing MetadataObjects in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have one of the following elements as the root element:   * An Action element, as specified in [MS-BDCMFFS] section 2.2.3.3. * An ActionParameter element, as specified in [MS-BDCMFFS] section 2.2.3.4. * An Association element, as specified in [MS-BDCMFFS] section 2.2.3.7. * An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.2.3.8. * An Entity element, as specified in [MS-BDCMFFS] section 2.2.3.11. * A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.2.3.12. * An Identifier element, as specified in [MS-BDCMFFS] section 2.2.3.14. * A LobSystem element, as specified in [MS-BDCMFFS] section 2.2.3.17. * A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.2.3.18. * A Method element, as specified in [MS-BDCMFFS] section 2.2.3.24. * A MethodInstance element, as specified in [MS-BDCMFFS] section 2.2.3.25. * A Model element, as specified in [MS-BDCMFFS] section 2.2.3.28. * A Parameter element, as specified in [MS-BDCMFFS] section 2.2.3.29. |
| **MetadataObjectReadXml** | The **MetadataObjectReadXml** operation creates MetadataObjects in the metadata store, optionally along with their **Properties**, localized names, and ACEs contained by the specified MetadataModel**[<31>](#Appendix_A_31" \o "Product behavior note 31)**. This operation creates **Properties**, localized names, and ACEs for the default Setting. The operation also creates a default localized name for the specified **MetadataModel**, such that the **vlue** element, as specified in section [2.2.4.41](#Section_4e5929f1ae3145bb8694c171e6043ded), contains the name of the root element of the specified **MetadataModel**. If the same **MetadataObject** exists on the server, the **MetadataObjectReadXml** operation will ignore the **MetadataObject** specified in the XML representing the **MetadataModel** when the **MetadataObject** contains no properties. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:   * An Action element, as specified in [MS-BDCMFFS] section 2.1.3.3. * An ActionParameter element, as specified in [MS-BDCMFFS] section 2.1.3.4. * An Association element, as specified in [MS-BDCMFFS] section 2.1.3.7. * An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.1.3.8. * An Entity element, as specified in [MS-BDCMFFS] section 2.1.3.16. * An Identifier element, as specified in [MS-BDCMFFS] section 2.1.3.19. * A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.1.3.17. * A LobSystem element, as specified in [MS-BDCMFFS] section 2.1.3.23. * A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.1.3.24. * A Method element, as specified in [MS-BDCMFFS] section 2.1.3.30. * A MethodInstance element, as specified in [MS-BDCMFFS] section 2.1.3.31. * A Parameter element, as specified in [MS-BDCMFFS] section 2.1.3.37. |
| **MetadataObjectWriteXml** | The **MetadataObjectWriteXml** operation is used to retrieve an XML representation of the following objects from the metadata store:   * MetadataObjects contained by the MetadataModel along with their **Properties**, localized names and ACEs, if "Model" value is specified for the **packageContents** element. The XML MUST conform to [MS-BDCMFFS] section 2.1. * Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The XML MUST conform to [MS-BDCMFFS] section 2.2.   The **MetadataModel** used for this operation MUST contain the specified **MetadataObject**, and other **MetadataObjects** that are contained by the **MetadataModel**; it MUST NOT contain any other **MetadataObjects**.  If the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, and if the specified **MetadataModel** contains LobSystems that the security principal in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason. |
| **ModelReadXml** | The **ModelReadXml** operation creates the MetadataObjects contained by the specified MetadataModel in the metadata store. The **Properties**, localized names, and ACEs of the **MetadataObjects** are also created. The **MetadataModel** MUST be specified as XML that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34. If the **MetadataModel** contains a LobSystem that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all LobSystemInstances contained by that **LobSystem** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace, and version as an **Entity** in the metadata store and the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. |
| **ReadSlicedXml** | The **ReadSlicedXml** operation creates the Model or LobSystem and its referenced MetadataObjects, along with the **Properties**, localized names, and ACEs of the MetadataModel in the metadata store. The MetadataModel is represented as an implementation-specific string. The **MetadataModel** MUST contain a single **Model** or **LobSystem**, along with all contained **MetadataObjects** and their **Properties** in all Settings, localized names in all **Settings**, and ACEs in all **Settings**. The protocol client uses this operation to restore a backed-up **Model** or **LobSystem** to a specified partition. The [**WriteSlicedXml**](#Section_f6412d883b3e4d6285d0cc08b23300bf) operation, as specified in section 3.1.4.115, retrieves the **string** to be used as an input for this operation. |
| **RemoveEntityFromModel** | The **RemoveEntityFromModel** operation removes the reference to the specified Entity from the specified Model. |
| **RemoveLocalizedName** | The **RemoveLocalizedName** operation removes the localized name with the specified LCID from the specified MetadataObject. |
| **RemoveProperty** | The **RemoveProperty** operation removes the specified **Property** from the specified MetadataObject. |
| **RemoveThrottlingRule** | The **RemoveThrottlingRule** operation deletes the specified throttle configuration setting. |
| **SaveLocalizedName** | The **SaveLocalizedName** operation adds or replaces a localized name for the specified MetadataObject. If a localized name with the same LCID and Setting as the specified LCID and **Setting** already exists for the specified **MetadataObject**, the protocol server MUST replace the localized name of the specified **MetadataObject** with the specified localized name. |
| **SaveProperty** | The **SaveProperty** operation adds or replaces a **Property** for the specified MetadataObject. If a **Property** with the same name as the specified **Property** already exists in the same Setting for the specified **MetadataObject**, the protocol server MUST replace the **Property** of the **MetadataObject** with the specified **Property**. |
| **SetAccessControlEntries** | The **SetAccessControlEntries** operation sets ACEs for the specified MetadataObject. The protocol server MUST delete all ACEs of the specified **MetadataObject** for the specified Setting, and then add the specified ACEs to the specified **MetadataObject**.  Note that if the **SetAccessControlEntries** element, as specified in section [3.1.4.107.2.1](#Section_48070d8bd8af4a3897e4edd8f995710a), contains an **accessControlEntries** element such that any two of its **AccessControlEntryStruct** elements contain the same value for the **principalName** element, the protocol server MUST add only one ACE for that **principalName**. |
| **SetDefaultActionForEntity** | The **SetDefaultActionForEntity** operation sets the default Action for the specified Entity. |
| **SetDefaultValuesForTypeDescriptor** | The **SetDefaultValuesForTypeDescriptor** operation sets the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the **TypeDescriptorId** element of the specified **DefaultValueStruct** complex type for the MethodInstance, with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct**. |
| **SetLobSystemDataByLobSystemId** | The **SetLobSystemDataByLobSystemId** operation sets the Business Logic Modules[<32>](#Appendix_A_32" \o "Product behavior note 32) for the specified LobSystem. |
| **TypeDescriptorCreate** | The **TypeDescriptorCreate** operation creates a TypeDescriptor in the metadata store. |
| **TypeDescriptorMergeXml** | The **TypeDescriptorMergeXml** operation merges the **Properties** and localized names contained by the TypeDescriptors in the specified MetadataModel into an existing **TypeDescriptor** in the metadata store. The **MetadataModel** MUST be specified as a well-formed external parsed entity, as specified in [XML] section 4.3.2, and MUST have as a root element the **TypeDescriptor** element, as specified in [MS-BDCMFFS] section 2.2.3.34. |
| **TypeDescriptorReadXml** | The **TypeDescriptorReadXml** operation creates the TypeDescriptors contained by the specified MetadataModel, along with their **Properties** and localized names, in the metadata store. The **MetadataModel** MUST be specified as a well-formed external parsed entity, as specified in [XML] section 4.3.2, and MUST have as a root element the **TypeDescriptor** element, as specified in [MS-BDCMFFS] section 2.1.3.43. |
| **Update** | The **Update** operation updates a MetadataObject in the metadata store. |
| **WriteSlicedXml** | The **WriteSlicedXml** operation retrieves an implementation-specific string corresponding to the specified LobSystem or Model,[<33>](#Appendix_A_33" \o "Product behavior note 33) along with its included MetadataObjects. This operation can also optionally retrieve the localized names, **Properties**, and ACEs in all Settings. The protocol client uses this operation to back up a **Model** or an **LobSystem** in a specified partition. The **ReadSlicedXml** operation, as specified in section 3.1.4.100, can be used to restore the **Model** or **LobSystem** by specifying the string returned from this operation. |

#### Activate

The **Activate** operation activates the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Activate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService\_Activate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse" message="tns:BusinessDataCatalogSharedService\_Activate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_Activate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Activate\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **Entity**. |
| [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) | The specified **Entity** has been updated by a context other than the one by which it was currently being read. This happens when the specified object version is not equal to the current object version of the **Entity**. For example, this error can be raised when one context reads an **Entity**, another context updates the same **Entity**, and then the original context tries to update. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | 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 [3.1.4.5.3.2](#Section_9e3e606433634cf2b4a98a6c53d3491c) when performing this operation. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Entity** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_Activate\_InputMessage** | The request WSDL message for the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_Activate\_OutputMessage** | The response WSDL message for the **Activate** WSDL operation. |

###### BusinessDataCatalogSharedService\_Activate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Activate** element.

###### BusinessDataCatalogSharedService\_Activate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ActivateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Activate** | The input data for the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ActivateResponse** | The result data for the **Activate** WSDL operation. |

###### Activate

The **Activate** element specifies the input data for the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Activate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**entityStruct:** The specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

###### ActivateResponse

The **ActivateResponse** element specifies the result data for the **Activate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ActivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ActivateResult" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ActivateResult:** The activated [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### AddAssociationReferenceToAssociationGroup

The **AddAssociationReferenceToAssociationGroup** operation creates the specified [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) in the specified [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="AddAssociationReferenceToAssociationGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) containing the specified **AssociationGroup**. |
| [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) | 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 (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0) | Another **AssociationReference** in the specified **AssociationGroup** references the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) that is referenced by the specified **AssociationReference**. |
| [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) | The specified **AssociationGroup** already contains the implementation-specific maximum number of **AssociationReferences**. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the **Entity** containing the **AssociationGroup** is active. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage** | The request WSDL message for the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage** | The response WSDL message for the **AddAssociationReferenceToAssociationGroup** WSDL operation. |

###### BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddAssociationReferenceToAssociationGroup** element.

###### BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddAssociationReferenceToAssociationGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **AddAssociationReferenceToAssociationGroup** | The input data for the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **AddAssociationReferenceToAssociationGroupResponse** | The result data for the **AddAssociationReferenceToAssociationGroup** WSDL operation. |

###### AddAssociationReferenceToAssociationGroup

The **AddAssociationReferenceToAssociationGroup** element specifies the input data for the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddAssociationReferenceToAssociationGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationGroupStruct" nillable="true" type="q9:AssociationGroupStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**associationGroupStruct:** The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **AssociationGroup** MUST be the partition of the protocol client.

**associationReferenceStruct:** The [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). The partition of this **AssociationReference** MUST be the partition of the protocol client.

###### AddAssociationReferenceToAssociationGroupResponse

The **AddAssociationReferenceToAssociationGroupResponse** element specifies the result data for the **AddAssociationReferenceToAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddAssociationReferenceToAssociationGroupResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="AddAssociationReferenceToAssociationGroupResult" nillable="true" type="q9:AssociationGroupStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**AddAssociationReferenceToAssociationGroupResult:** The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **AssociationGroup** MUST be the partition of the protocol client.

**associationReferenceStruct:** The [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a)[<34>](#Appendix_A_34" \o "Product behavior note 34). The partition of this **AssociationReference** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### AddEntityToModel

The **AddEntityToModel** operation adds a reference to the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="AddEntityToModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelResponse" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **Model**. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the specified Entity is not the same as the partition of the specified **Model**. |
| **BdcExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)** | The specified **Entity** does not exist. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Model** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage** | The request WSDL message for the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage** | The response WSDL message for the **AddEntityToModel** WSDL operation. |

###### BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddEntityToModel** element.

###### BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddEntityToModelResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **AddEntityToModel** | The input data for the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **AddEntityToModelResponse** | The result data for the **AddEntityToModel** WSDL operation. |

###### AddEntityToModel

The **AddEntityToModel** element specifies the input data for the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddEntityToModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q9:ModelStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q9:EntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**modelStruct:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** MUST be the partition of the protocol client.

**entityStruct:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The partition of this **Entity** MUST be the partition of the protocol client.

###### AddEntityToModelResponse

The **AddEntityToModelResponse** element specifies the result data for the **AddEntityToModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddEntityToModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### AddThrottlingRule

The **AddThrottlingRule** operation adds the specified[**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0)to the[**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd)**.**

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="AddThrottlingRule" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRule" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleResponse" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage** response message unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) that contains the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

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

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage** | The request WSDL message for the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage** | The response WSDL message for the **AddThrottlingRule** WSDL operation. |

###### BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRule

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddThrottlingRule** element.

###### BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddThrottlingRuleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **AddThrottlingRule** | The input data for the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **AddThrottlingRuleResponse** | The result data for the **AddThrottlingRule** WSDL operation. |

###### AddThrottlingRule

The **AddThrottlingRule** element specifies the input data for the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddThrottlingRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="safetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**safetyNetStruct:** The [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) to add.

###### AddThrottlingRuleResponse

The **AddThrottlingRuleResponse** element specifies the result data for the **AddThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddThrottlingRuleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### BulkSwitchActiveOrValidate

The **BulkSwitchActiveOrValidate** operation changes the active version of the specified set of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) or validates the specified **Entities** for the purpose of changing the active versions and identifying related errors.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="BulkSwitchActiveOrValidate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <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"/>
3. <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"/>
4. <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"/>
5. <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"/>
6. <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"/>
7. <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"/>
8. <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"/>
9. <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"/>
10. <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"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| **AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)** | The value of the **validate** element is set to "false", and the security principal (1) in whose context the protocol client is operating is not authorized to modify the specified **Entities**. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) is different from the partition of any of the specified **Entities**. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The **entityStructs** element in the **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage** has no elements. |
| [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) | At least one of the specified **Entities** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **Entity**. For example, this error can be raised when one context reads the given **Entity**, after which another context updates the same **Entity**, and then the original context tries to update the same **Entity**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | One or more of the specified **Entities** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage** | The request WSDL message for the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage** | The response WSDL message for the **BulkSwitchActiveOrValidate** WSDL operation. |

###### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **BulkSwitchActiveOrValidate** element.

###### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **BulkSwitchActiveOrValidateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **BulkSwitchActiveOrValidate** | The input data for the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BulkSwitchActiveOrValidateResponse** | The result data for the **BulkSwitchActiveOrValidate** WSDL operation. |

###### BulkSwitchActiveOrValidate

The **BulkSwitchActiveOrValidate** element specifies the input data for the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="BulkSwitchActiveOrValidate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStructs" nillable="true" type="q9:ArrayOfEntityStruct"/>
5. <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q9:ModelStruct"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**entityStructs:** The [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that are to be set active. At least one **Entity** MUST be specified. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of the **Entities** in this element MUST be the partition of the protocol client. If the value of the **validate** element is set to "false", the protocol server MUST set the specified **Entities** to active upon successful completion of this operation.

**validate:** This element specifies whether the state of the data stored in the protocol server can be changed. If it is set to "false", the protocol server SHOULD change the active versions of the **Entities**[<35>](#Appendix_A_35" \o "Product behavior note 35). If it is set to "true", the protocol server MUST validate the specified **Entities** and return any associated errors, and the protocol server MUST NOT change the state of the data stored on the protocol server.

**modelStruct:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) to which to add the specified **Entities**. The partition (1) of this **Model** MUST be the partition of the protocol client. If the value of this element is not NULL and the value of the **validate** element is set to "false", this operation MUST add all specified **Entities** to the specified **Model** upon successful completion.

###### BulkSwitchActiveOrValidateResponse

The **BulkSwitchActiveOrValidateResponse** element specifies the result data for the **BulkSwitchActiveOrValidate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="BulkSwitchActiveOrValidateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="BulkSwitchActiveOrValidateResult" nillable="true" type="q9:ArrayOfActivationErrorRecordStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStructs" nillable="true" type="q9:ArrayOfEntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </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**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that were updated as a result of this operation. The value of this element MUST be ignored by the protocol client if the value of the **validate** element is set to "true". The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **Entities** MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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. |

###### ArrayOfActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

1. <xs:complexType name="ArrayOfActivationErrorRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct" nillable="true" type="q9:ActivationErrorRecordStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ActivationErrorRecordStruct:** A reference error encountered during the operation.

###### ActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ActivationErrorRecordStruct** complex type contains information about a single reference error encountered during the operation. A reference error indicates that a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) has a reference to an invalid **MetadataObject**. The value of the **errorCode** element specifies which **MetadataObject** has an error and the error type.

1. <xs:complexType name="ActivationErrorRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="containingEntityName" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="containingEntityVersion" nillable="true" type="xs:string"/>
10. <xs:element minOccurs="0" name="containingMethodName" nillable="true" type="xs:string"/>
11. <xs:element minOccurs="0" name="containingParameterName" nillable="true" type="xs:string"/>
12. <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
13. <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true" type="xs:string"/>
14. <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
15. <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true" type="xs:string"/>
16. <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
17. <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true" type="xs:string"/>
18. <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
21. <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
22. </xs:sequence>
23. </xs:complexType>

**aGAssociationEntityReferenceName:** The name of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) containing the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) referenced by the [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) 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**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that is in error or contains the **AssociationReference** that is in error.

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

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

**containingEntityVersion:** The string representation of the version of the **Entity** that is in error or contains the **MetadataObject** in error. Following is the [**ABNF**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf), as specified in [[RFC5234]](http://go.microsoft.com/fwlink/?LinkId=123096), for the **ContainingEntityVersion** structure:

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

Major = 1\*10DIGIT

Minor = 1\*10DIGIT

Build = 1\*10DIGIT

Revision = 1\*10DIGIT

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

**containingMethodName:** The name of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains the **MetadataObject** that is in error.

**containingParameterName:** The name of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that contains the **MetadataObject** that is in error.

**containingTypeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that is in error.

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

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

| Value | Description |
| --- | --- |
| -1003 | A **TypeDescriptor** is in error because it references an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) that does not exist in the specified **Entity**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **containingParameterName** * **containingTypeDescriptorName** * **containingTypeDescriptorId** * **tDIDReferenceName** * **tDIDReferenceTypeName** * **tDIDEntityReferenceName** * **tDIDEntityReferenceNamespace**   Values of all other elements MUST be ignored by the protocol client. |
| -1004 | A **TypeDescriptor** is in error because it references an **Association** that does not exist in the specified **Entity**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **containingParameterName** * **containingTypeDescriptorName** * **containingTypeDescriptorId** * **tDAssociationReferenceName** * **tDAssociationEntityReferenceName** * **tDAssociationEntityReferenceNamespace**   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 subset of **Identifiers** of an active **Entity**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **tDIDEntityReferenceName** * **tDIDEntityReferenceNamespace**   Values of all other elements MUST be ignored by the protocol client. |
| -1008 | An **AssociationReference** is in error because it references an **Association** that does not exist in the specified **Entity**[<36>](#Appendix_A_36" \o "Product behavior note 36). For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingAssociationGroupName** * **aGAssociationReferenceName** * **aGAssociationEntityReferenceName** * **aGAssociationEntityReferenceNamespace**   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**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) as the destination **Entity** of the **Association**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **aGAssociationReferenceName**   Values of all other elements 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), and there exists a **TypeDescriptor** contained by the **Parameter** that contains the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of this **MethodInstance**. * The same **TypeDescriptor** references an **Identifier** of a source **Entity** of the **Association**. * The same **TypeDescriptor** references the **Association**. * The **ReturnTypeDescriptor** of the **Association** has the **IsCollection** flag not set.   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, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **aGAssociationReferenceName**   Values of all other elements 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 not set do not have same sources. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingAssociationGroupName**   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 the **IsReverse** attribute is "true", but the **AssociationGroup** has more than one source.   For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingAssociationGroupName**   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** that is an [**Associator**](#gt_492ed21f-01e3-49fb-8db6-6f871650cb13) or a [**Disassociator**](#gt_944ed1d9-1520-4e99-bdef-ebd62839a326) referenced from the **AssociationReferences** of this **AssociationGroup**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingAssociationGroupName**   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 met:   * There is more than one **Association** that is a [**BulkAssociatedIdEnumerator**](#gt_6561079b-45a7-47de-98da-7e3bc5b9029a) referenced from the **AssociationReferences** of this **AssociationGroup** with the **IsReverse** attribute is "false"[<37>](#Appendix_A_37" \o "Product behavior note 37). * There are more **Associations** that are **BulkAssociatedIdEnumerators** referenced from the **AssociationReferences** of this **AssociationGroup** with the **IsReverse** attribute is "true" than the number of sources of this **AssociationGroup**[<38>](#Appendix_A_38" \o "Product behavior note 38).   For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingAssociationGroupName**   Values of all other elements MUST be ignored by the protocol client. |
| -804 | An **AssociationGroup** is in error because it contains an **AssociationReference** that has the **IsReverse** attribute "true", but the **Association** it references is not an [**AssociationNavigator**](#gt_408814a8-693c-4213-8e7a-451f9ef2f44c), a [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70), or a **BulkAssociatedIdEnumerator**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingAssociationGroupName**   Values of all other elements MUST be ignored by the protocol client. |
| -805 | An **Association** is in error because it is a **BulkAssociationNavigator** that is referenced from an **AssociationReference**, but it is not referenced from an **AssociationReference** that is contained in an **AssociationGroup** that has another **AssociationReference** that references an **Association** that is an **AssociationNavigator** and has the same value for **IsReverse**. For this error code, the following MUST NOT be NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **aGAssociationReferenceName** * **containingAssociationGroupName** |
| -806 | An **Association** is in error because it is referenced by two or more **AssociationReferences**. For this error code, the following MUST NOT be not NULL:   * **containingEntityNamespace** * **containingEntityName** * **containingEntityVersion** * **containingMethodName** * **aGAssociationReferenceName**   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.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CheckPathInMethodInstances

The **CheckPathInMerthodInstances** operation retrieves whether the specified path, which conforms to [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.5.5, corresponds to a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in a [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) of the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of the specified type contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a), along with the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of one such **MethodInstance**, if one exists.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="CheckPathInMethodInstances" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesResponse" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The specified path did not conform to the specification for TypeDescriptorPathStrings in [MS-BDCMFFS] section 2.1.5.5. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **DataClass** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage** | The request WSDL message for the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage** | The response WSDL message for the **CheckPathInMethodInstances** WSDL operation. |

###### BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CheckPathInMethodInstances** element.

###### BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CheckPathInMethodInstancesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **CheckPathInMethodInstances** | The input data for the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **CheckPathInMethodInstancesResponse** | The result data for the **CheckPathInMethodInstances** WSDL operation. |

###### CheckPathInMethodInstances

The **CheckPathInMethodInstances** element specifies the input data for the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

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

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**dottedPath:** The path to the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) from the **TypeDescriptors** contained by the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of the **MethodInstance**. The value MUST be a path as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.5.5.

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### CheckPathInMethodInstancesResponse

The **CheckPathInMethodInstancesResponse** element specifies the result data for the **CheckPathInMethodInstances** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CheckPathInMethodInstancesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
5. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

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

**methodInstanceId:** The value MUST be the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of any of the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of the specified type contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that has a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in its [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) 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.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ClearLocalizedNames

The **ClearLocalizedNames** operation removes all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ClearLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **MetadataObject**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage** | The request WSDL message for the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage** | The response WSDL message for the **ClearLocalizedNames** WSDL operation. |

###### BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ClearLocalizedNames** element.

###### BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ClearLocalizedNamesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ClearLocalizedNames** | The input data for the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ClearLocalizedNamesResponse** | The result data for the **ClearLocalizedNames** WSDL operation. |

###### ClearLocalizedNames

The **ClearLocalizedNames** element specifies the input data for the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ClearLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from which the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) are to be removed. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to delete the localized names.

###### ClearLocalizedNamesResponse

The **ClearLocalizedNamesResponse** element specifies the result data for the **ClearLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ClearLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ClearProperties

The **ClearProperties** operation removes all **Properties** of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ClearProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ClearProperties\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **MetadataObject**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ClearProperties\_InputMessage** | The request WSDL message for the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage** | The response WSDL message for the **ClearProperties** WSDL operation. |

###### BusinessDataCatalogSharedService\_ClearProperties\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ClearProperties** element.

###### BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ClearPropertiesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ClearProperties** | The input data for the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ClearPropertiesResponse** | The result data for the **ClearProperties** WSDL operation. |

###### ClearProperties

The **ClearProperties** element specifies the input data for the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ClearProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from which the **Properties** are to be removed. The partition of this **MetadataObject** MUST be the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to delete the **Properties**.

###### ClearPropertiesResponse

The **ClearPropertiesResponse** element specifies the result data for the **ClearProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ClearPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CopyAclAcrossChildren

The **CopyAclAcrossChildren** operation clears the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the descendent [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) of a specified **MetadataObject** and copies the ACEs of the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.

If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, the protocol server MUST NOT change the ACEs of any [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and its descendent **MetadataObjects** if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="CopyAclAcrossChildren" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| **AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)** | The security principal in whose context the protocol client is operating is not authorized to set permissions on the specified **MetadataObject**. |
| **ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)** | The **MetadataObjectId** of the specified **MetadataObject** is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage** | The request WSDL message for the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage** | The response WSDL message for the **CopyAclAcrossChildren** WSDL operation. |

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CopyAclAcrossChildren** element.

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CopyAclAcrossChildrenResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **CopyAclAcrossChildren** | The input data for the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **CopyAclAcrossChildrenResponse** | The result data for the **CopyAclAcrossChildren** WSDL operation. |

###### CopyAclAcrossChildren

The **CopyAclAcrossChildren** element specifies the input data for the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CopyAclAcrossChildren" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

###### CopyAclAcrossChildrenResponse

The **CopyAclAcrossChildrenResponse** element specifies the result data for the **CopyAclAcrossChildren** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CopyAclAcrossChildrenResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CopyAclAcrossChildrenForSetting

The **CopyAclAcrossChildrenForSetting** operation clears the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in a specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) on the descendent [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) of the specified **MetadataObject** and copies the ACEs in the specified **Setting** on the specified **MetadataObject** to the descendent **MetadataObjects**. A given **MetadataObject** is a descendent of the specified **MetadataObject** if the **MetadataObject** that contains the given **MetadataObject** is also a descendent of the specified **MetadataObject** or the **MetadataObject** is contained by the specified **MetadataObject**.

If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, the protocol server MUST NOT change the ACEs of any [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and its descendent **MetadataObjects** if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="CopyAclAcrossChildrenForSetting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| **AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)** | The security principal in whose context the protocol client is operating is not authorized to set permissions on the specified **MetadataObject**. |
| **ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)** | The **MetadataObjectId** of the specified **MetadataObject** is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified *MetadataObject* does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage** | The request WSDL message for the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage** | The response WSDL message for the **CopyAclAcrossChildrenForSetting** WSDL operation. |

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CopyAclAcrossChildrenForSetting** element.

###### BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CopyAclAcrossChildrenForSettingResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **CopyAclAcrossChildrenForSetting** | The input data for the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **CopyAclAcrossChildrenForSettingResponse** | The result data for the **CopyAclAcrossChildrenForSetting** WSDL operation. |

###### CopyAclAcrossChildrenForSetting

The **CopyAclAcrossChildrenForSetting** element specifies the input data for the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CopyAclAcrossChildrenForSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to copy the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) to and from.

###### CopyAclAcrossChildrenForSettingResponse

The **CopyAclAcrossChildrenForSettingResponse** element specifies the result data for the **CopyAclAcrossChildrenForSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CopyAclAcrossChildrenForSettingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CopyAclToSetting

The **CopyAclToSetting** operation deletes the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the specified non-default [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) and copies the ACEs in the default **Setting** of the specified **MetadataObject** to the specified **Setting** of the specified **MetadataObject**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="CopyAclToSetting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to set permissions on the specified **MetadataObject**. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage** | The request WSDL message for the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage** | The response WSDL message for the **CopyAclToSetting** WSDL operation. |

###### BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CopyAclToSetting** element.

###### BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **CopyAclToSettingResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **CopyAclToSetting** | The input data for the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **CopyAclToSettingResponse** | The result data for the **CopyAclToSetting** WSDL operation. |

###### CopyAclToSetting

The **CopyAclToSetting** element specifies the input data for the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CopyAclToSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this element MUST be the partition of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to which to write the ACEs.

###### CopyAclToSettingResponse

The **CopyAclToSettingResponse** element specifies the result data for the **CopyAclToSetting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="CopyAclToSettingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Deactivate

The **Deactivate** operation sets an active version of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to not active.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Deactivate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse" message="tns:BusinessDataCatalogSharedService\_Deactivate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_Deactivate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Deactivate\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **Entity**. |
| [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) | The specified **Entity** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **Entity**. For example, this error can be raised when a thread reads the given **Entity**, another thread updates the same **Entity**, and then the original thread tries to update. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | This operation cannot be performed because the protocol server encountered reference errors, as specified in section [3.1.4.5.3.2](#Section_9e3e606433634cf2b4a98a6c53d3491c), when performing this operation. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | This operation cannot be performed because the specified **Entity** is not active. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Entity** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_Deactivate\_InputMessage** | The request WSDL message for the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_Deactivate\_OutputMessage** | The response WSDL message for the **Deactivate** WSDL operation. |

###### BusinessDataCatalogSharedService\_Deactivate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Deactivate** element.

###### BusinessDataCatalogSharedService\_Deactivate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeactivateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Deactivate** | The input data for the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeactivateResponse** | The result data for the **Deactivate** WSDL operation. |

###### Deactivate

The **Deactivate** element specifies the input data for the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Deactivate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**entityStruct:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to set to not active. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

###### DeactivateResponse

The **DeactivateResponse** element specifies the result data for the **Deactivate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeactivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="DeactivateResult" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**DeactivateResult:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that was set to not active as a result of this operation. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Delete

The **Delete** operation deletes the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Delete" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete" message="tns:BusinessDataCatalogSharedService\_Delete\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse" message="tns:BusinessDataCatalogSharedService\_Delete\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_Delete\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Delete\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a[**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, or the specified **MetadataObject** is a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) and the security principal in whose context the protocol client is operating is not authorized to modify one or more of the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contain one or more [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) referenced by the specified **Model**. |
| [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) | The specified **MetadataObject** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be raised when one context reads the given **MetadataObject**, another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the specified **MetadataObject** is an **Entity**, which, if active, MUST be deactivated before being deleted. An attempt was made by the server to deactivate the **Entity**, but, at the time of the attempt, the **Entity** was no longer active. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the specified **MetadataObject** is a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e) and is currently used in a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of type [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) or DeletedIdEnumerator. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified **MetadataObject** is a **LobSystem** that contains at least one **Entity**. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the specified **MetadataObject** is a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) and there is already at least one **MethodInstance** whose [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) is the specified **TypeDescriptor**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

**Properties** that are child objects of the specified **MetadataObject** MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the metadata store.

| MetadataObject | Action |
| --- | --- |
| [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) | Delete all [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) in the specified Action. |
| **Entity** | Delete all **Action**, [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219), [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0), and [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that are child objects of the specified **Entity**, as well as all their child objects, in a recursive manner. If the **LobSystem** that is the parent of this **Entity** contains no other **Entities**, also delete the **LobSystem**, as well as all the **MetadataObjects** contained by the **LobSystem** in a recursive manner. |
| **LobSystem** | Delete all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) that are child objects of the specified **LobSystem**. |
| **Method** | Delete all MethodInstance, FilterDescriptor, and [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that are child objects of the specified **Method**, as well as all their child objects, in a recursive manner.[<39>](#Appendix_A_39" \o "Product behavior note 39) |
| **Model** | Delete all **LobSystems** and **Entities** that are referenced by the specified **Model**, as well as all their child objects, in a recursive manner. |
| **Parameter** | Delete the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, in a recursive manner.[<40>](#Appendix_A_40" \o "Product behavior note 40) If there are several parameters that exist in the same method, and one of the parameters is deleted, then the **objectVersion** of the other parameters are incremented by 1, and the **ordinalNumber** of the other parameters are changed according to the following rules:  1. If the parameter is deleted, the **ordinalNumber** value of the parameters whose **ordinalNumber** values are greater than this parameter are reduced by 1.  2. If the parameter is deleted, the **ordinalNumber** value of the parameters whose **ordinalNumber** values are less than this parameter are not changed. |
| **TypeDescriptor** | Delete all the **TypeDescriptors** that are child objects of the specified **TypeDescriptor**, as well as all their child objects, in a recursive manner. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_Delete\_InputMessage** | The request WSDL message for the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_Delete\_OutputMessage** | The response WSDL message for the **Delete** WSDL operation. |

###### BusinessDataCatalogSharedService\_Delete\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Delete** element.

###### BusinessDataCatalogSharedService\_Delete\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Delete** | The input data for the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteResponse** | The result data for the **Delete** WSDL operation. |

###### Delete

The **Delete** element specifies the input data for the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Delete" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that this operation MUST delete. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

###### DeleteResponse

The **DeleteResponse** element specifies the result data for the **Delete** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteAssociationReferenceFromAssociationGroup

The **DeleteAssociationReferenceFromAssociationGroup** operation removes an [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) from an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) by deleting the **AssociationReference**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a[**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that contains the **AssociationGroup** containing the specified **AssociationReference**. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The **AssociationGroup** identifier of the specified **AssociationReference** is set to zero. |
| [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) | The specified **AssociationReference** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **AssociationReference**. For example, this error can be raised when one context reads the **AssociationReference**, another context updates the same **AssociationReference**, and then the original context tries to update.[<41>](#Appendix_A_41" \o "Product behavior note 41) |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the **Entity** that contains the **AssociationGroup** that contains the specified **AssociationReference** is active.[<42>](#Appendix_A_42" \o "Product behavior note 42) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The **AssociationGroup** containing the specified **AssociationReference** does not exist. |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The identifier of the specified **AssociationReference** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage** | The request WSDL message for the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage** | The response WSDL message for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation. |

###### BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteAssociationReferenceFromAssociationGroup** element.

###### BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteAssociationReferenceFromAssociationGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteAssociationReferenceFromAssociationGroup** | The input data for the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteAssociationReferenceFromAssociationGroupResponse** | The result data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation. |

###### DeleteAssociationReferenceFromAssociationGroup

The **DeleteAssociationReferenceFromAssociationGroup** element specifies the input data for the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteAssociationReferenceFromAssociationGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**associationReferenceStruct:** The [**AssociationReference**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **AssociationReference** MUST be the partition of the protocol client.

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

###### DeleteAssociationReferenceFromAssociationGroupResponse

The **DeleteAssociationReferenceFromAssociationGroupResponse** element specifies the result data for the **DeleteAssociationReferenceFromAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteDefaultValueForTypeDescriptor

The **DeleteDefaultValueForTypeDescriptor** operation deletes the [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) for the specified [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteDefaultValueForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) containing the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) containing the specified **TypeDescriptor**. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the **TypeDescriptor** or the **MethodInstance** is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **TypeDescriptor** or the **MethodInstance** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage** | The request WSDL message for the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage** | The response WSDL message for the **DeleteDefaultValueForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteDefaultValueForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteDefaultValueForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteDefaultValueForTypeDescriptor** | The input data for the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteDefaultValueForTypeDescriptorResponse** | The result data for the **DeleteDefaultValueForTypeDescriptor** WSDL operation. |

###### DeleteDefaultValueForTypeDescriptor

The **DeleteDefaultValueForTypeDescriptor** element specifies the input data for the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteDefaultValueForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**typeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**methodInstanceId:** The **MetadataObjectId** of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### DeleteDefaultValueForTypeDescriptorResponse

The **DeleteDefaultValueForTypeDescriptorResponse** element specifies the result data for the **DeleteDefaultValueForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteDefaultValueForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteNoCascade

The **DeleteNoCascade** operation deletes the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) without deleting the **MetadataObjects** it references.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteNoCascade" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**. |
| [ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)](#Section_4e91414dabba4cdaa4d60439558bd6d9) | The specified **MetadataObject** has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be raised when one context reads the given **MetadataObject**, another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**. |
| [InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the specified **MetadataObject** is an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb), which, if active, MUST be deactivated before being deleted. An attempt was made by the server to deactivate the **Entity**, but at the time of the attempt, the **Entity** was no longer active. |
| [InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the specified **MetadataObject** is a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e) and is currently used in a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of type [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) or DeletedIdEnumerator. |
| [InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified **MetadataObject** is an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains at least one Entity. |
| [InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)](#Section_670bfd88424347e9bdebf5b5d0665b58) | The operation cannot be performed because the specified **MetadataObject** is a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) and there is already at least one **MethodInstance** whose [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) is the specified **TypeDescriptor**. |
| [MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

Properties that are child objects of the specified **MetadataObject** MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

| MetadataObject | Action |
| --- | --- |
| [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) | Delete all [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) in the specified **Action**. |
| **Entity** | Delete all **Action**, [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219), [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0), and [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) that are child objects of the specified **Entity**, as well as all their child objects, in a recursive manner. |
| LobSystem | Delete all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) that are child objects of the specified **LobSystem**. |
| Method | Delete all **MethodInstance**, **FilterDescriptor**, and [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that are child objects of the specified **Method**, as well as all their child objects, in a recursive manner.[<43>](#Appendix_A_43" \o "Product behavior note 43) |
| **Parameter** | Delete the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, in a recursive manner.[<44>](#Appendix_A_44" \o "Product behavior note 44) If there are several parameters that exist in the same method, and one of the parameters is deleted, then the **objectVersion** of the other parameters are incremented by 1, and the **ordinalNumber** value of the other parameters are changed according to the below rules:  1. If the parameter is deleted, the **ordinalNumber** value of the parameters whose **ordinalNumber** values are greater than this parameter are reduced by 1.  2. If the parameter is deleted, the **ordinalNumber** value of the parameters whose **ordinalNumber** values are less than this parameter are not changed. |
| **TypeDescriptor** | Delete all the **TypeDescriptors** that are child objects of the specified **TypeDescriptor**, as well as all their child objects, in a recursive manner. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage** | The request WSDL message for the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage** | The response WSDL message for the **DeleteNoCascade** WSDL operation. |

###### BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteNoCascade** element.

###### BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteNoCascadeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteNoCascade** | The input data for the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteNoCascadeResponse** | The result data for the **DeleteNoCascade** WSDL operation. |

###### DeleteNoCascade

The **DeleteNoCascade** element specifies the input data for the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteNoCascade" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that this operation MUST delete. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

###### DeleteNoCascadeResponse

The **DeleteNoCascadeResponse** element specifies the result data for the **DeleteNoCascade** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteNoCascadeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteProxyAssemblyForLobSystem

The **DeleteProxyAssemblyForLobSystem** operation deletes a [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<45>](#Appendix_A_45" \o "Product behavior note 45)** associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteProxyAssemblyForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **LobSystem**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist[<46>](#Appendix_A_46" \o "Product behavior note 46). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage** | The request WSDL message for the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage** | The response WSDL message for the **DeleteProxyAssemblyForLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteProxyAssemblyForLobSystem** element.

###### BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteProxyAssemblyForLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteProxyAssemblyForLobSystem** | The input data for the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteProxyAssemblyForLobSystemResponse** | The result data for the **DeleteProxyAssemblyForLobSystem** WSDL operation. |

###### DeleteProxyAssemblyForLobSystem

The **DeleteProxyAssemblyForLobSystem** element specifies the input data for the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteProxyAssemblyForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) for which the [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)**[<47>](#Appendix_A_47" \o "Product behavior note 47)** is to be deleted. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **LobSystem** MUST be the partition of the protocol client.

###### DeleteProxyAssemblyForLobSystemResponse

The **DeleteProxyAssemblyForLobSystemResponse** element specifies the result data for the **DeleteProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteProxyAssemblyForLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### EntityCreate

The **EntityCreate** operation creates an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The operation MUST copy [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) from the specified **LobSystem** to the created **Entity**. If a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="EntityCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_EntityCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) in the protocol client [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | 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 (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_edc27edfebf84a4dbfecd154dd1089f6) | The version specified for a new **Entity** is NULL. |
| [**DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0) | An **Entity** with the same name, namespace, version, and partition already exists in the specified **LobSystem**. |
| [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) | The specified **LobSystem** already contains the implementation-specific maximum number of **Entities**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Model** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_EntityCreate\_InputMessage** | The request WSDL message for the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage** | The response WSDL message for the **EntityCreate** WSDL operation. |

###### BusinessDataCatalogSharedService\_EntityCreate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **EntityCreate** element.

###### BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **EntityCreateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **EntityCreate** | The input data for the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **EntityCreateResponse** | The result data for the **EntityCreate** WSDL operation. |

###### EntityCreate

The **EntityCreate** element specifies the input data for the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="EntityCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q9:EntityStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q9:ModelStruct"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**rawValues:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be created. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75)of this **Entity** MUST be the partition of the protocol client.

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) in which the **Entity** is to be created. The partition of this **LobSystem** MUST be the partition of the protocol client.

**modelStruct:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) that references the created **Entity**. If the **Model** is NULL or its [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero, the protocol server MUST ignore it. Otherwise, the partition of this **Model** MUST be the partition of the protocol client.

###### EntityCreateResponse

The **EntityCreateResponse** element specifies the result data for the **EntityCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="EntityCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="EntityCreateResult" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**EntityCreateResult:** The created [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ExportPackage

The **ExportPackage** operation retrieves an XML representation of the following objects from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) if "Model" value is set for the **packageContents** element. The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) MUST conform to the Business Data Connectivity Model file format specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34.
* Localized names, **Properties**, and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) corresponding to **MetadataObjects** contained by the specified **MetadataModel** if "Model" value is not set for the **packageContents** element. The XML MUST conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.

If the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, and if the specified **MetadataModel** contains [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ExportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <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"/>
3. <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"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ExportPackage\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The security principal in whose context the protocol client is operating is not authorized to export[<48>](#Appendix_A_48" \o "Product behavior note 48) the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The **packageContents** element has the "InlineProxies" value set but does not have the "Model" value set. |
| [**ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_edc27edfebf84a4dbfecd154dd1089f6) | The specified **Model** is NULL. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **Model** is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Model** or other **MetadataObjects** to be exported do not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ExportPackage\_InputMessage** | The request WSDL message for the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage** | The response WSDL message for the **ExportPackage** WSDL operation. |

###### BusinessDataCatalogSharedService\_ExportPackage\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ExportPackage** element.

###### BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ExportPackageResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ExportPackage** | The input data for the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ExportPackageResponse** | The result data for the **ExportPackage** WSDL operation. |

###### ExportPackage

The **ExportPackage** element specifies the input data for the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ExportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q9:ModelStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**modelStruct:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** MUST be the partition of the protocol client.

**packageContents:** Specifies the kind of data to retrieve for the specified **Model**. If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). If the "Model" value is also specified, the protocol server MUST also retrieve **Properties** from the default setting that do not have the same name as the **Properties** in the specified **Setting**. If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). If the "LocalizedNames" value is specified, the protocol server MUST retrieve the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects** from the specified **Setting**. If the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) as the localized names in the specified **Setting**. If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**. If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject** and if "Model" value is also specified, the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**. If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**settingId:** The identifier of the **Setting** to use for retrieving **Properties**, localized names, and ACEs to export. If **Properties**, localized names, or ACEs are not exported, the protocol server MUST ignore the value of this element.

###### ExportPackageResponse

The **ExportPackageResponse** element specifies the result data for the **ExportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ExportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="ExportPackageResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ExportPackageResult:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation conforming to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) that contains the specified data for the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GenerateProxyAssemblyForLobSystem

The **GenerateProxyAssemblyForLobSystem** operation forces the protocol server to create an implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<49>](#Appendix_A_49" \o "Product behavior note 49) for the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to connect to the LOB system described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem**, this operation MUST NOT create another Business Logic Module and MUST complete successfully.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GenerateProxyAssemblyForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **LobSystem**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is set to zero. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage** | The request WSDL message for the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage** | The response WSDL message for the **GenerateProxyAssemblyForLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GenerateProxyAssemblyForLobSystem** element.

###### BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GenerateProxyAssemblyForLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GenerateProxyAssemblyForLobSystem** | The input data for the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GenerateProxyAssemblyForLobSystemResponse** | The result data for the **GenerateProxyAssemblyForLobSystem** WSDL operation. |

###### GenerateProxyAssemblyForLobSystem

The **GenerateProxyAssemblyForLobSystem** element specifies the input data for the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GenerateProxyAssemblyForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

###### GenerateProxyAssemblyForLobSystemResponse

The **GenerateProxyAssemblyForLobSystemResponse** element specifies the result data for the **GenerateProxyAssemblyForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GenerateProxyAssemblyForLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAccessControlEntries

The **GetAccessControlEntries** operation retrieves the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is set to "true", the protocol server MUST retrieve ACEs for the specified **MetadataObject** from the default **Setting**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage** | The request WSDL message for the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage** | The response WSDL message for the **GetAccessControlEntries** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAccessControlEntries** element.

###### BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAccessControlEntriesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAccessControlEntries** | The input data for the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAccessControlEntriesResponse** | The result data for the **GetAccessControlEntries** WSDL operation. |

###### GetAccessControlEntries

The **GetAccessControlEntries** element specifies the input data for the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to return the ACEs.

**fallback:** Specifies whether to retrieve ACEs from the default **Setting** if [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) do not exist in the specified **Setting**.

###### GetAccessControlEntriesResponse

The **GetAccessControlEntriesResponse** element specifies the result data for the **GetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAccessControlEntriesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAccessControlEntriesResult" nillable="true" type="q9:ArrayOfAccessControlEntryStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAccessControlEntriesResult:** The list of ACEs.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionById

The **GetActionById** operation retrieves the specified [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetActionById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Action** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetActionById\_InputMessage** | The request WSDL message for the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetActionById\_OutputMessage** | The response WSDL message for the **GetActionById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetActionById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionById** element.

###### BusinessDataCatalogSharedService\_GetActionById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetActionById** | The input data for the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetActionByIdResponse** | The result data for the **GetActionById** WSDL operation. |

###### GetActionById

The **GetActionById** element specifies the input data for the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**actionId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetActionByIdResponse

The **GetActionByIdResponse** element specifies the result data for the **GetActionById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionByIdResult" nillable="true" type="q9:ActionStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionByIdResult:** The [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Action** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionParameterById

The **GetActionParameterById** operation retrieves the specified [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetActionParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **ActionParameter** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage** | The request WSDL message for the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage** | The response WSDL message for the **GetActionParameterById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionParameterById** element.

###### BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionParameterByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetActionParameterById** | The input data for the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetActionParameterByIdResponse** | The result data for the **GetActionParameterById** WSDL operation. |

###### GetActionParameterById

The **GetActionParameterById** element specifies the input data for the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**actionParameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetActionParameterByIdResponse

The **GetActionParameterByIdResponse** element specifies the result data for the **GetActionParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionParameterByIdResult" nillable="true" type="q9:ActionParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionParameterByIdResult:** The [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **ActionParameter** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionParametersForAction

The **GetActionParametersForAction** operation retrieves the [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) of the specified [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetActionParametersForAction" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0").[<50>](#Appendix_A_50" \o "Product behavior note 50) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Action** does not exist. [<51>](#Appendix_A_51" \o "Product behavior note 51) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage** | The request WSDL message for the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage** | The response WSDL message for the **GetActionParametersForAction** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionParametersForAction** element.

###### BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionParametersForActionResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetActionParametersForAction** | The input data for the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetActionParametersForActionResponse** | The result data for the **GetActionParametersForAction** WSDL operation. |

###### GetActionParametersForAction

The **GetActionParametersForAction** element specifies the input data for the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionParametersForAction" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**actionId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetActionParametersForActionResponse

The **GetActionParametersForActionResponse** element specifies the result data for the **GetActionParametersForAction** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionParametersForActionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionParametersForActionResult" nillable="true" type="q9:ArrayOfActionParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionParametersForActionResult:** The list of [**ActionParameters**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) that are contained by the specified [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **ActionParameters** MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfActionParameterStruct** | Contains a list of **ActionParameters** for an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). |

###### ArrayOfActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of **ActionParameters**.

1. <xs:complexType name="ArrayOfActionParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct" nillable="true" type="q9:ActionParameterStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ActionParameterStruct:** An [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) of an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetActionsForEntity

The **GetActionsForEntity** operation retrieves the [**Actions**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) of the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetActionsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Entity** does not exist. [<52>](#Appendix_A_52" \o "Product behavior note 52) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage** | The request WSDL message for the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage** | The response WSDL message for the **GetActionsForEntity** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionsForEntity** element.

###### BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetActionsForEntityResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetActionsForEntity** | The input data for the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetActionsForEntityResponse** | The result data for the **GetActionsForEntity** WSDL operation. |

###### GetActionsForEntity

The **GetActionsForEntity** element specifies the input data for the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetActionsForEntityResponse

The **GetActionsForEntityResponse** element specifies the result data for the **GetActionsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetActionsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetActionsForEntityResult" nillable="true" type="q9:ArrayOfActionStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetActionsForEntityResult:** The list of [**Actions**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) that are contained by the specified **Entity**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **Actions** MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfActionStruct** | Contains a list of [**Actions**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). |

###### ArrayOfActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of [**Actions**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372).

1. <xs:complexType name="ArrayOfActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true" type="q9:ActionStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ActionStruct:** An **Action** of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllLocalizedNames

The **GetAllLocalizedNames** operation retrieves all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAllLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist.[<53>](#Appendix_A_53" \o "Product behavior note 53) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage** | The request WSDL message for the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage** | The response WSDL message for the **GetAllLocalizedNames** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllLocalizedNames** element.

###### BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllLocalizedNamesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAllLocalizedNames** | The input data for the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAllLocalizedNamesResponse** | The result data for the **GetAllLocalizedNames** WSDL operation. |

###### GetAllLocalizedNames

The **GetAllLocalizedNames** element specifies the input data for the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to return the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423).

**merged:** Specifies whether the default **Setting** is to be considered in the operation when the *settingId* parameter is not NULL. The value MUST one of those in the following table.

| Value | Description |
| --- | --- |
| true | The protocol server MUST include the localized names from the default **Setting** and the specified **Setting**. If a localized name for a given [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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**. |

###### GetAllLocalizedNamesResponse

The **GetAllLocalizedNamesResponse** element specifies the result data for the **GetAllLocalizedNames** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllLocalizedNamesResult" nillable="true" type="q9:ArrayOfLocalizedNameStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllLocalizedNamesResult:** The list of [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** operation retrieves all [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObject\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObject\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist.[<54>](#Appendix_A_54" \o "Product behavior note 54) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage** | The request WSDL message for the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage** | The response WSDL message for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllLocalizedNamesForMetadataObjectStruct** element.

###### BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllLocalizedNamesForMetadataObjectStructResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAllLocalizedNamesForMetadataObjectStruct** | The input data for the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAllLocalizedNamesForMetadataObjectStructResponse** | The result data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation. |

###### GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** element specifies the input data for the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllLocalizedNamesForMetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) for which the operation MUST return the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to return the localized names.

**merged:** Specifies whether the default **Setting** is to be considered in the operation if the *settingId* parameter is not NULL. The value MUST be one of those in the following table.

| Value | Description |
| --- | --- |
| true | The protocol server MUST include a localized name from the default **Setting** if a localized name with the same [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) does not exist for the specified **Setting**. |
| false | The protocol server MUST return the localized names only for the specified **Setting**. |

###### GetAllLocalizedNamesForMetadataObjectStructResponse

The **GetAllLocalizedNamesForMetadataObjectStructResponse** element specifies the result data for the **GetAllLocalizedNamesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true" type="q9:ArrayOfLocalizedNameStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllLocalizedNamesForMetadataObjectStructResult:** The list of [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllPartitionIds

The **GetAllPartitionIds** operation retrieves all distinct [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) identifiers.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAllPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage** response message unless any faults occur.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage** | The request WSDL message for the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage** | The response WSDL message for the **GetAllPartitionIds** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllPartitionIds** element.

###### BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllPartitionIdsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAllPartitionIds** | The input data for the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAllPartitionIdsResponse** | The result data for the **GetAllPartitionIds** WSDL operation. |

###### GetAllPartitionIds

The **GetAllPartitionIds** element specifies the input data for the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllPartitionIds" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

###### GetAllPartitionIdsResponse

The **GetAllPartitionIdsResponse** element specifies the result data for the **GetAllPartitionIds** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q12:ArrayOfguid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllPartitionIdsResult:** The list of [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) identifiers.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllProperties

The **GetAllProperties** operation retrieves all **Properties** of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) and the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAllProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **MetadataObject** is a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1), and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage** | The request WSDL message for the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage** | The response WSDL message for the **GetAllProperties** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllProperties** element.

###### BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllPropertiesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAllProperties** | The input data for the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAllPropertiesResponse** | The result data for the **GetAllProperties** WSDL operation. |

###### GetAllProperties

The **GetAllProperties** element specifies the input data for the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to return the **Properties**.

**merged:** The value MUST be ignored by the protocol server if no Setting is specified. If a **Setting** is specified, the value of this element MUST be set to "true" for the **Properties** in the default **Setting** to be returned in addition to the **Properties** in the specified **Setting**. Otherwise, the value MUST be set to "false". If this value is set to "true", a **Setting** is specified and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**, the **Property** from the specified **Setting** MUST be retrieved by the protocol server, and the **Property** from the default **Setting** MUST be ignored by the protocol server.

###### GetAllPropertiesResponse

The **GetAllPropertiesResponse** element specifies the result data for the **GetAllProperties** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllPropertiesResult" nillable="true" type="q9:ArrayOfPropertyStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllPropertiesResult:** The list of **Properties**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** operation retrieves all **Properties** of the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **MetadataObject** is a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1), and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage** | The request WSDL message for the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage** | The response WSDL message for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllPropertiesForMetadataObjectStruct** element.

###### BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAllPropertiesForMetadataObjectStructResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAllPropertiesForMetadataObjectStruct** | The input data for the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAllPropertiesForMetadataObjectStructResponse** | The result data for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation. |

###### GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** element specifies the input data for the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllPropertiesForMetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this MetadataObject MUST be the partition of the protocol client.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to return the **Properties**.

**merged:** The value MUST be ignored by the protocol server if no **Setting** is specified. If a Setting is specified, the value of this element MUST be set to "true" for the **Properties** in the default **Setting** to be returned in addition to the **Properties** in the specified **Setting**. Otherwise, the value MUST be set to "false". If this value is set to "true", a **Setting** is specified, and a **Property** with the same name is found in both the specified **Setting** and the default **Setting**, the **Property** from the specified **Setting** MUST be retrieved by the protocol server, and the **Property** from the default **Setting** MUST be ignored by the protocol server.

###### GetAllPropertiesForMetadataObjectStructResponse

The **GetAllPropertiesForMetadataObjectStructResponse** element specifies the result data for the **GetAllPropertiesForMetadataObjectStruct** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAllPropertiesForMetadataObjectStructResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAllPropertiesForMetadataObjectStructResult" nillable="true" type="q9:ArrayOfPropertyStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAllPropertiesForMetadataObjectStructResult:** The list of **Properties**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationById

The **GetAssociationById** operation retrieves the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | | Condition |
| --- | --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An **Association** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". | |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage** | The request WSDL message for the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage** | The response WSDL message for the **GetAssociationById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationById** element.

###### BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationById** | The input data for the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationByIdResponse** | The result data for the **GetAssociationById** WSDL operation. |

###### GetAssociationById

The **GetAssociationById** element specifies the input data for the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationByIdResponse

The **GetAssociationByIdResponse** element specifies the result data for the **GetAssociationById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationByIdResult" nillable="true" type="q9:AssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationByIdResult:** The [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Association** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationGroupById

The **GetAssociationGroupById** operation retrieves the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationGroupById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An **AssociationGroup** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage** | The request WSDL message for the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage** | The response WSDL message for the **GetAssociationGroupById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationGroupById** element.

###### BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationGroupByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationGroupById** | The input data for the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationGroupByIdResponse** | The result data for the **GetAssociationGroupById** WSDL operation. |

###### GetAssociationGroupById

The **GetAssociationGroupById** element specifies the input data for the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationGroupById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationGroupByIdResponse

The **GetAssociationGroupByIdResponse** element specifies the result data for the **GetAssociationGroupById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationGroupByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationGroupByIdResult" nillable="true" type="q9:AssociationGroupStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationGroupByIdResult:** The [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **AssociationGroup** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** operation retrieves the [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationGroupsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified MetadataObjectId is set to zero ("0").[<55>](#Appendix_A_55" \o "Product behavior note 55) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An Entity with the specified **MetadataObjectId** does not exist. [<56>](#Appendix_A_56" \o "Product behavior note 56) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage** | The request WSDL message for the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage** | The response WSDL message for the **GetAssociationGroupsForEntity** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationGroupsForEntity** element.

###### BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationGroupsForEntityResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationGroupsForEntity** | The input data for the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationGroupsForEntityResponse** | The result data for the **GetAssociationGroupsForEntity** WSDL operation. |

###### GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** element specifies the input data for the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationGroupsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationGroupsForEntityResponse

The **GetAssociationGroupsForEntityResponse** element specifies the result data for the **GetAssociationGroupsForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationGroupsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationGroupsForEntityResult" nillable="true" type="q9:ArrayOfAssociationGroupStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationGroupsForEntityResult:** The list of [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each **AssociationGroup** in the list MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfAssociationGroupStruct** | Contains a list of [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). |

###### ArrayOfAssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of [**AssociationGroups**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

1. <xs:complexType name="ArrayOfAssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct" nillable="true" type="q9:AssociationGroupStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AssociationGroupStruct:** An **AssociationGroup**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationMembersInRole

The **GetAssociationMembersInRole** operation retrieves the source or destination [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) of the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationMembersInRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"), or the value of the **role** parameter is not zero ("0") or "1". |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Association** does not exist, or refers to one or more nonexistent **Entities**, or refers to one or more empty **Entities** or null. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage** | The request WSDL message for the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage** | The response WSDL message for the **GetAssociationMembersInRole** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationMembersInRole** element.

###### BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationMembersInRoleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationMembersInRole** | The input data for the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationMembersInRoleResponse** | The result data for the **GetAssociationMembersInRole** WSDL operation. |

###### GetAssociationMembersInRole

The **GetAssociationMembersInRole** element specifies the input data for the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationMembersInRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

**role:** A bit that specifies whether to return source or destination [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) from the **Association**. The following table describes possible values.

| Value | Description |
| --- | --- |
| 0 | Only source **Entities** are returned. |
| 1 | Only destination **Entities** are returned. |

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationMembersInRoleResponse

The **GetAssociationMembersInRoleResponse** element specifies the result data for the **GetAssociationMembersInRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationMembersInRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationMembersInRoleResult" nillable="true" type="q9:ArrayOfAssociationMemberStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationMembersInRoleResult:** The list of source or destination [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfAssociationMemberStruct** | Contains a list of relationships between [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) and [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). |
| **AssociationMemberStruct** | Contains information about a specific relationship of an Entity and Association. |

###### ArrayOfAssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationship between [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) and [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

1. <xs:complexType name="ArrayOfAssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct" nillable="true" type="q9:AssociationMemberStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AssociationMemberStruct:** Contains information about the relationship between an **Entity** and an **Association**.

###### AssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) and an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

1. <xs:complexType name="AssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
8. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
9. </xs:sequence>
10. </xs:complexType>

**\_entityName:** The name of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be NULL. Otherwise, this value MUST have at least 1 and at most 255 [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) characters.

**\_entityNamespace:** The namespace of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be NULL. Otherwise, the value MUST have at least 1 and at most 255 Unicode characters.

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **Association** referencing the **Entity**. The value of this element MUST be in the range 1-0x7fffffff.

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **Association**.

**role:** Specifies whether the **Entity** is a source or the destination of the **Association**. The following table describes possible values.

| Value | Description |
| --- | --- |
| 0 | The **Entity** is a source of the **Association**. |
| 1 | The **Entity** is the destination of the **Association**. |

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** operation retrieves the [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a) contained by the specified [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationReferencesForAssociationGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **AssociationGroup** does not exist.[<57>](#Appendix_A_57" \o "Product behavior note 57) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage** | The request WSDL message for the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage** | The response WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationReferencesForAssociationGroup** element.

###### BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationReferencesForAssociationGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationReferencesForAssociationGroup** | The input data for the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationReferencesForAssociationGroupResponse** | The result data for the **GetAssociationReferencesForAssociationGroup** WSDL operation. |

###### GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** element specifies the input data for the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationReferencesForAssociationGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**associationGroupId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationReferencesForAssociationGroupResponse

The **GetAssociationReferencesForAssociationGroupResponse** element specifies the result data for the **GetAssociationReferencesForAssociationGroup** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationReferencesForAssociationGroupResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationReferencesForAssociationGroupResult" nillable="true" type="q9:ArrayOfAssociationReferenceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationReferencesForAssociationGroupResult:** The list of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each **AssociationReference** in the list MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfAssociationReferenceStruct** | Contains a list of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a). |

###### ArrayOfAssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type contains a list of [**AssociationReferences**](#gt_b4a44cb9-cfb6-4f85-80d4-b299c916ee9a).

1. <xs:complexType name="ArrayOfAssociationReferenceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**AssociationReferenceStruct:** An **AssociationReference**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationsForDataClass

The **GetAssociationsForDataClass** operation retrieves the [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) that are contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified MetadataObjectId is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **DataClass** does not exist.[<58>](#Appendix_A_58" \o "Product behavior note 58) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage** | The request WSDL message for the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage** | The response WSDL message for the **GetAssociationsForDataClass** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationsForDataClass** element.

###### BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationsForDataClassResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationsForDataClass** | The input data for the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationsForDataClassResponse** | The result data for the **GetAssociationsForDataClass** WSDL operation. |

###### GetAssociationsForDataClass

The **GetAssociationsForDataClass** element specifies the input data for the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). The value of this element MUST be in the range from 1 through 0x7fffffff.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationsForDataClassResponse

The **GetAssociationsForDataClassResponse** element specifies the result data for the **GetAssociationsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationsForDataClassResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForDataClassResult" nillable="true" type="q9:ArrayOfAssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationsForDataClassResult:** The list of [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **Associations** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** operation retrieves the [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) that reference the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) as **Association** source or **Association** destination.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationsForEntityAndRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST return with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"), or the **role** parameter is not set to zero ("0") or "1". |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified **Entity** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage** | The request WSDL message for the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage** | The response WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationsForEntityAndRole** element.

###### BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationsForEntityAndRoleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationsForEntityAndRole** | The input data for the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationsForEntityAndRoleResponse** | The result data for the **GetAssociationsForEntityAndRole** WSDL operation. |

###### GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** element specifies the input data for the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationsForEntityAndRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

**role:** Specifies whether the **Entity** is a source or the destination of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The following table describes possible values.

| Value | Description |
| --- | --- |
| 0 | The **Entity** is a source of the **Association**. |
| 1 | The **Entity** is the destination of the **Association**. |

**activeOnly:** Specifies whether to include the **Associations** that reference **Entities** those are not active in the result. For the purposes of this operation, an **Association** is considered to reference an **Entity** when that **Entity** is a source or the destination of the **Association**, or when the **Entity** contains the **Association**. The following table describes possible values.

| Value | Description |
| --- | --- |
| true | Return all **Associations** that match the search criteria. |
| false | Return **Associations** that match the search criteria only if they do not reference an Entity that is not active. |

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationsForEntityAndRoleResponse

The **GetAssociationsForEntityAndRoleResponse** element specifies the result data for the **GetAssociationsForEntityAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationsForEntityAndRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForEntityAndRoleResult" nillable="true" type="q9:ArrayOfAssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationsForEntityAndRoleResult:** The list of [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **Associations** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAssociationsForMethod

The **GetAssociationsForMethod** operation retrieves the [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) that are contained by the specified [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAssociationsForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Method** does not exist.[<59>](#Appendix_A_59" \o "Product behavior note 59) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage** | The request WSDL message for the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage** | The response WSDL message for the **GetAssociationsForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationsForMethod** element.

###### BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAssociationsForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAssociationsForMethod** | The input data for the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAssociationsForMethodResponse** | The result data for the **GetAssociationsForMethod** WSDL operation. |

###### GetAssociationsForMethod

The **GetAssociationsForMethod** element specifies the input data for the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). The value of this element MUST be in the range from 1 through 0x7fffffff.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetAssociationsForMethodResponse

The **GetAssociationsForMethodResponse** element specifies the result data for the **GetAssociationsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAssociationsForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForMethodResult" nillable="true" type="q9:ArrayOfAssociationStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAssociationsForMethodResult:** The list of [**Associations**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **Associations** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** operation retrieves the cache version stamps, that were modified after the specified time.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetCacheInvalidationRecordsSince" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
12. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage** response message, unless any faults occur.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage** | The request WSDL message for the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage** | The response WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetCacheInvalidationRecordsSince** element.

###### BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetCacheInvalidationRecordsSinceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetCacheInvalidationRecordsSince** | The input data for the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetCacheInvalidationRecordsSinceResponse** | The result data for the **GetCacheInvalidationRecordsSince** WSDL operation. |

###### GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** element specifies the input data for the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetCacheInvalidationRecordsSince" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**dateTime:** The implementation-specific timestamp to compare with the timestamp elements of the cache version stamps. This operation MUST return only cache version stamps with timestamp values greater than the specified value.

###### GetCacheInvalidationRecordsSinceResponse

The **GetCacheInvalidationRecordsSinceResponse** element specifies the result data for the **GetCacheInvalidationRecordsSince** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetCacheInvalidationRecordsSinceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetCacheInvalidationRecordsSinceResult" nillable="true" type="q9:ArrayOfCacheInvalidationRecordStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetCacheInvalidationRecordsSinceResult:** The list of cache version stamps. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these cache version stamps MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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. |

###### ArrayOfCacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfCacheInvalidationRecordStruct** complex type contains a list of cache version stamps.

1. <xs:complexType name="ArrayOfCacheInvalidationRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct" nillable="true" type="q9:CacheInvalidationRecordStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**CacheInvalidationRecordStruct:** A cache version stamp.

###### CacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **CacheInvalidationRecordStruct** complex type MUST contain information about the version stamps for the cache. Each row in the result set MUST represent object cache version stamp for the contents or existence of a type of [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) specified by its **CacheLine** element. This complex type is defined as follows.

1. <xs:complexType name="CacheInvalidationRecordStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
4. <xs:element minOccurs="0" name="counter" type="xs:int"/>
5. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
7. </xs:sequence>
8. </xs:complexType>

**cacheLine:** Specifies that the information in the cache corresponds either to the contents or to the relationship to a type of **MetadataObject**. It MUST consist of one or more of the bit masks of the values from the following table.

| Value | Description |
| --- | --- |
| **0x00001** | Corresponds to the contents of a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). |
| **0x00002** | Corresponds to the contents of a [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). |
| **0x00004** | Corresponds to the contents of a [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). |
| **0x00008** | Corresponds to the contents of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). |
| **0x00010** | Corresponds to the contents of an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0). |
| **0x00020** | Corresponds to the contents of a [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). |
| **0x00040** | Corresponds to the contents of a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| **0x00080** | Corresponds to the contents of a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |
| **0x00100** | Corresponds to the contents of a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |
| **0x00200** | Corresponds to the contents of a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). |
| **0x00400** | Corresponds to the contents of an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372). |
| **0x00800** | Corresponds to the contents of an [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f). |
| **0x01000** | Corresponds to the contents of an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). |
| **0x08000** | Corresponds to the contents of an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053). |
| **0x10000** | Corresponds to the contents of a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8). |
| **0x000100000** | Corresponds to the relationship to a **LobSystem**. |
| **0x000200000** | Corresponds to the relationship to a **LobSystemInstance**. |
| **0x000400000** | Corresponds to the relationship to a **DataClass**. |
| **0x000800000** | Corresponds to the relationship to an **Entity**. |
| **0x001000000** | Corresponds to the relationship to an **Identifier**. |
| **0x002000000** | Corresponds to the relationship to a **Method**. |
| **0x004000000** | Corresponds to the relationship to a **MethodInstance**. |
| **0x008000000** | Corresponds to the relationship to a **FilterDescriptor**. |
| **0x010000000** | Corresponds to the relationship to a **Parameter**. |
| **0x020000000** | Corresponds to the relationship to a **TypeDescriptor**. |
| **0x040000000** | Corresponds to the relationship to an **Action**. |
| **0x080000000** | Corresponds to the relationship to an **ActionParameter**. |
| **0x100000000** | Corresponds to the relationship to an **Association**. |
| **0x200000000** | Corresponds to the relationship to an **AssociationGroup**. |
| **0x400000000** | Corresponds to the relationship to a **MetadataObject**. |
| **0x800000000** | Corresponds to the relationship to an [**ACE**](#gt_b581857f-39aa-4979-876b-daba67a40f15). |

**counter:** The value representing the version of data structures or relationships of data structures tracking the changes made by the applications utilizing the protocol client.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the cache version stamp.

**timestamp:** The implementation-specific timestamp specifying the time at which this cache version stamp was last modified.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** operation retrieves the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contained by the specified **TypeDescriptor**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **TypeDescriptor** does not exist.[<60>](#Appendix_A_60" \o "Product behavior note 60) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage** | The request WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage** | The response WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetChildTypeDescriptorsForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetChildTypeDescriptorsForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetChildTypeDescriptorsForTypeDescriptor** | The input data for the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetChildTypeDescriptorsForTypeDescriptorResponse** | The result data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation. |

###### GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetChildTypeDescriptorsForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**parentTypeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetChildTypeDescriptorsForTypeDescriptorResponse

The **GetChildTypeDescriptorsForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetChildTypeDescriptorsForTypeDescriptorResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each **TypeDescriptor** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** operation retrieves the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that reference [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) and are descendants of the specified **TypeDescriptor**. A **TypeDescriptor** is a descendent of the specified **TypeDescriptor** if the **TypeDescriptor** that contains the **TypeDescriptor** is also a descendent of the specified **TypeDescriptor** or the **TypeDescriptor** is contained by the specified **TypeDescriptor**.[<61>](#Appendix_A_61" \o "Product behavior note 61)

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **TypeDescriptor** is set to zero ("0")[<62>](#Appendix_A_62" \o "Product behavior note 62). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **TypeDescriptor** does not exist.[<63>](#Appendix_A_63" \o "Product behavior note 63) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage** | The request WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage** | The response WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** | The input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** | The result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation. |

###### GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="typeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**typeDescriptorStruct:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **TypeDescriptor** MUST be the partition of the protocol client.

###### GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **TypeDescriptors** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetDataClassById

The **GetDataClassById** operation retrieves the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetDataClassById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **DataClass** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage** | The request WSDL message for the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage** | The response WSDL message for the **GetDataClassById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDataClassById** element.

###### BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDataClassByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetDataClassById** | The input data for the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetDataClassByIdResponse** | The result data for the **GetDataClassById** WSDL operation. |

###### GetDataClassById

The **GetDataClassById** element specifies the input data for the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDataClassById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **DataClass** with the specified **MetadataObjectId** exists. If a **DataClass** with the specified **MetadataObjectId** does not exist and the value of this element is set to "false", the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetDataClassByIdResponse

The **GetDataClassByIdResponse** element specifies the result data for the **GetDataClassById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDataClassByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDataClassByIdResult" nillable="true" type="q9:DataClassStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetDataClassByIdResult:** The [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **DataClass** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetDataClassesForSystem

The **GetDataClassesForSystem** operation retrieves [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) contained by the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetDataClassesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist.[<64>](#Appendix_A_64" \o "Product behavior note 64) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage** | The request WSDL message for the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage** | The response WSDL message for the **GetDataClassesForSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDataClassesForSystem** element.

###### BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDataClassesForSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetDataClassesForSystem** | The input data for the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetDataClassesForSystemResponse** | The result data for the **GetDataClassesForSystem** WSDL operation. |

###### GetDataClassesForSystem

The **GetDataClassesForSystem** element specifies the input data for the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDataClassesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**activeOnly:** Specifies the [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) to return. If this element is set to "true", only the active **DataClasses** MUST be returned. Otherwise, this operation MUST return **DataClasses** contained by the specified **LobSystem**, regardless of their active status.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetDataClassesForSystemResponse

The **GetDataClassesForSystemResponse** element specifies the result data for the **GetDataClassesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDataClassesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDataClassesForSystemResult" nillable="true" type="q9:ArrayOfDataClassStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetDataClassesForSystemResult:** The list of [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **DataClasses** MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfDataClassStruct** | Contains a list of [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a). |

###### ArrayOfDataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list of [**DataClasses**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

1. <xs:complexType name="ArrayOfDataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true" type="q9:DataClassStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**DataClassStruct:** A **DataClass**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** operation retrieves the [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetDefaultValuesForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The **TypeDescriptor** with the specified **MetadataObjectId** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage** | The request WSDL message for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage** | The response WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDefaultValuesForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetDefaultValuesForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetDefaultValuesForTypeDescriptor** | The input data for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetDefaultValuesForTypeDescriptorResponse** | The result data for the **GetDefaultValuesForTypeDescriptor** WSDL operation. |

###### GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** element specifies the input data for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDefaultValuesForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**typeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetDefaultValuesForTypeDescriptorResponse

The **GetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **GetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetDefaultValuesForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDefaultValuesForTypeDescriptorResult" nillable="true" type="q9:ArrayOfDefaultValueStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetDefaultValuesForTypeDescriptorResult:** The [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfDefaultValueStruct** | Contains a list of [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe). |

###### ArrayOfDefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

A complex type that specifies a list of [**DefaultValues**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe), as follows.

1. <xs:complexType name="ArrayOfDefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true" type="q9:DefaultValueStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**DefaultValueStruct:** A **DefaultValue**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** operation retrieves the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that perform the role of source or destination for the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesForAssociationAndRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The value of the **role** parameter is not zero ("0") or "1".[<65>](#Appendix_A_65" \o "Product behavior note 65) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Association** does not exist.[<66>](#Appendix_A_66" \o "Product behavior note 66) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage** | The request WSDL message for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage** | The response WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForAssociationAndRole** element.

###### BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForAssociationAndRoleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesForAssociationAndRole** | The input data for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesForAssociationAndRoleResponse** | The result data for the **GetEntitiesForAssociationAndRole** WSDL operation. |

###### GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** element specifies the input data for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForAssociationAndRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874).

**role:** Specifies the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned. The following table describes possible values.

| Value | Description |
| --- | --- |
| 0 | The **Entities** are sources of the **Association**. |
| 1 | The **Entity** is the destinations of the **Association**. |

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntitiesForAssociationAndRoleResponse

The **GetEntitiesForAssociationAndRoleResponse** element specifies the result data for the **GetEntitiesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForAssociationAndRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesForAssociationAndRoleResult" nillable="true" type="q9:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesForAssociationAndRoleResult:** The list of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Entities** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesForSystem

The **GetEntitiesForSystem** operation retrieves [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) of the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist.[<67>](#Appendix_A_67" \o "Product behavior note 67) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage** | The request WSDL message for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage** | The response WSDL message for the **GetEntitiesForSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForSystem** element.

###### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesForSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesForSystem** | The input data for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesForSystemResponse** | The result data for the **GetEntitiesForSystem** WSDL operation. |

###### GetEntitiesForSystem

The **GetEntitiesForSystem** element specifies the input data for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**activeOnly:** This element MUST contain information about the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned. If set to "true", the returned **Entities** MUST all be active. Otherwise, this operation MUST return **Entities**, regardless of the active status.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntitiesForSystemResponse

The **GetEntitiesForSystemResponse** element specifies the result data for the **GetEntitiesForSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesForSystemResult" nillable="true" type="q9:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesForSystemResult:** The list of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Entities** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** operation retrieves the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that match the specified wildcard patterns for name and namespace.

An **Entity** matches the pattern specified by **wildcardedName** if, and only if, **wildcardedName** matches the name of the **Entity**, the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **Entity** with [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) set to zero, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.

An **Entity** matches the pattern specified by **wildcardedNamespace** if, and only if, **wildcardedNamespace** matches the namespace of the **Entity**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesLikeNameAndNamespace" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The length of the **wildcardedName** element exceeds 255 characters, or the length of the name of the **wildcardedNamespace** exceeds 255 characters, or the specified **wildcardedName** is invalid, or the specified **wildcardedNamespace** is invalid. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage** | The request WSDL message for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage** | The response WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesLikeNameAndNamespace** element.

###### BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesLikeNameAndNamespace** | The input data for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesLikeNameAndNamespaceResponse** | The result data for the **GetEntitiesLikeNameAndNamespace** WSDL operation. |

###### GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** element specifies the input data for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesLikeNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
7. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
8. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**wildcardedNamespace:** The wildcard pattern to be used to retrieve the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) whose namespace matches the wildcard pattern.

The following is the [**ABNF**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf) for the **wildcardedNamespace**.

1. wildcardedNamespace = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. 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:

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**wildcardedName:** The wildcard pattern to be used to retrieve the **Entities** whose name or [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) matches the wildcard pattern.

The following is the ABNF for the **wildcardedName**.

1. wildcardedName = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. 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:

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**callerCultureLcid:** The [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale to be used when retrieving the Entities.

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntitiesLikeNameAndNamespaceResponse

The **GetEntitiesLikeNameAndNamespaceResponse** element specifies the result data for the **GetEntitiesLikeNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesLikeNameAndNamespaceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesLikeNameAndNamespaceResult" nillable="true" type="q9:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesLikeNameAndNamespaceResult:** The list of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Entities** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** operation retrieves [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that are referenced by the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntitiesReferencedByModelId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f)containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Model** does not exist.[<68>](#Appendix_A_68" \o "Product behavior note 68) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage** | The request WSDL message for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage** | The response WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesReferencedByModelId** element.

###### BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntitiesReferencedByModelIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntitiesReferencedByModelId** | The input data for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntitiesReferencedByModelIdResponse** | The result data for the **GetEntitiesReferencedByModelId** WSDL operation. |

###### GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** element specifies the input data for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesReferencedByModelId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
5. <xs:element xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" minOccurs="0" name="mode" type="tns4:EntityConstants.EntitiesInModelQuery"/>
6. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

**mode:** Specifies the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned. The value of this element is specified in **EntityConstants.EntitiesInModelQuery** (section [3.1.4.48.4.1](#Section_0b623c03cea84f9e904a76c14d86151a)).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntitiesReferencedByModelIdResponse

The **GetEntitiesReferencedByModelIdResponse** element specifies the result data for the **GetEntitiesReferencedByModelId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntitiesReferencedByModelIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntitiesReferencedByModelIdResult" nillable="true" type="q9:ArrayOfEntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntitiesReferencedByModelIdResult:** The list of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Entities** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **EntityConstants.EntitiesInModelQuery** | Contains a list of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned. |

###### EntityConstants.EntitiesInModelQuery

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

Specifies the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned.

1. <xs:simpleType name="EntityConstants.EntitiesInModelQuery" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="AllEntitiesInModel"/>
4. <xs:enumeration value="OwnedEntitiesInModel"/>
5. <xs:enumeration value="SharedEntitiesInModel"/>
6. </xs:restriction>
7. </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**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). |
| 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**. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityById

The **GetEntityById** operation retrieves the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An **Entity** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityById\_InputMessage** | The request WSDL message for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage** | The response WSDL message for the **GetEntityById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityById** element.

###### BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityById** | The input data for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityByIdResponse** | The result data for the **GetEntityById** WSDL operation. |

###### GetEntityById

The **GetEntityById** element specifies the input data for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntityByIdResponse

The **GetEntityByIdResponse** element specifies the result data for the **GetEntityById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntityByIdResult" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityByIdResult:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityCount

The **GetEntityCount** operation retrieves the number of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that are contained by the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityCount" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0").[<69>](#Appendix_A_69" \o "Product behavior note 69) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist.[<70>](#Appendix_A_70" \o "Product behavior note 70) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage** | The request WSDL message for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage** | The response WSDL message for the **GetEntityCount** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityCount** element.

###### BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityCountResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityCount** | The input data for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityCountResponse** | The result data for the **GetEntityCount** WSDL operation. |

###### GetEntityCount

The **GetEntityCount** element specifies the input data for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityCount" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntityCountResponse

The **GetEntityCountResponse** element specifies the result data for the **GetEntityCount** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityCountResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityCountResult:** The number of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) contained by the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** operation retrieves the names and namespaces of [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that are referenced by the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874). Only **Entities** in the specified association role of source or destination are returned.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero, or the value of the **role** parameter is not zero ("0") or "1"[<71>](#Appendix_A_71" \o "Product behavior note 71). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Association** does not exist[<72>](#Appendix_A_72" \o "Product behavior note 72). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage** | The request WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage** | The response WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

###### BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityNameAndNamespacesForAssociationAndRole** | The input data for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityNameAndNamespacesForAssociationAndRoleResponse** | The result data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation. |

###### GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** element specifies the input data for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityNameAndNamespacesForAssociationAndRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**associationId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) for which the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) information is to be returned.

**role:** A byte that specifies whether to return information for the **Entities** that are referenced as **Association** source or **Association** destination by the specified **Association**. The following table describes possible values.

| Value | Description |
| --- | --- |
| 0 | Returns a value for **Entities** that are referenced as **Association** sources by the specified **Association**. |
| 1 | Returns a value for **Entities** that are referenced as **Association** destination by the specified **Association**. |

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntityNameAndNamespacesForAssociationAndRoleResponse

The **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element specifies the result data for the **GetEntityNameAndNamespacesForAssociationAndRole** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="namespaces" nillable="true" type="q12:ArrayOfstring"/>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="names" nillable="true" type="q12:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**namespaces:** The namespaces of the [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that are referenced by the specified [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) in the specified role of source or **Association** destination.

**names:** The names of the **Entities** that are referenced by the specified **Association** in the specified role of source or destination. The order of these names MUST correspond to the order of namespaces, so that the *n*th name and the *n*th namespace together describe the name and namespace of a single **Entity**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** operation retrieves the active [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) with the specified name and namespace in the specified [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityWithNameAndNamespace" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The specified name or the specified namespace exceeds 255 characters. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An active **Entity** with the specified namespace and name does not exist in the specified partition. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage** | The request WSDL message for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage** | The response WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespace** element.

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespaceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityWithNameAndNamespace** | The input data for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityWithNameAndNamespaceResponse** | The result data for the **GetEntityWithNameAndNamespace** WSDL operation. |

###### GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** element specifies the input data for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**namespace:** The namespace of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned.

**name:** The name of the **Entity** to be returned.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntityWithNameAndNamespaceResponse

The **GetEntityWithNameAndNamespaceResponse** element specifies the result data for the **GetEntityWithNameAndNamespace** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespaceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntityWithNameAndNamespaceResult" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityWithNameAndNamespaceResult:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** operation retrieves the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) with the specified name, namespace, and version.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The length of the specified name or the length of the specified namespace exceeds 255 characters. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An **Entity** with the specified namespace and name and version does not exist in the specified [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75)**.** |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage** | The request WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage** | The response WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespaceAndVersion** element.

###### BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEntityWithNameAndNamespaceAndVersion** | The input data for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEntityWithNameAndNamespaceAndVersionResponse** | The result data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation. |

###### GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** element specifies the input data for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespaceAndVersion" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0" name="version" nillable="true" type="q1:Version"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**namespace:** The namespace of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be returned.

**name:** The name of the **Entity** to be returned.

**version:** The version of the **Entity** to be returned.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetEntityWithNameAndNamespaceAndVersionResponse

The **GetEntityWithNameAndNamespaceAndVersionResponse** element specifies the result data for the **GetEntityWithNameAndNamespaceAndVersion** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true" type="q9:EntityStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEntityWithNameAndNamespaceAndVersionResult:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** operation retrieves [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that correspond to [**fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) with the specified name in the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The **MethodInstanceType** (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) of the **MethodInstance** with the specified name in the specified **Entity** is not equal to any one of the following:   * [**Finder**](#gt_7d0c8796-81a5-4bf3-bce3-de23859223e0) * [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) * [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533) * [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) * [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4) * [**BulkSpecificFinder**](#gt_47a83bff-2845-46da-8fdd-91824b8302fc) * [**BulkAssociationNavigator**](#gt_8fb03089-6a60-4582-920f-8a9f0ccb1c70) * [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066) * [**Creator**](#gt_5b81c8fe-25fa-4580-adfb-63e606e17f04) * [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **MethodInstance** with the specified name does not exist in the specified **Entity**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage** | The request WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage** | The response WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFieldTypeDescriptorsByMethodInstance** element.

###### BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetFieldTypeDescriptorsByMethodInstance** | The input data for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetFieldTypeDescriptorsByMethodInstanceResponse** | The result data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation. |

###### GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** element specifies the input data for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFieldTypeDescriptorsByMethodInstance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodInstanceName" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q9:EntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodInstanceName:** The name of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**entityStruct:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **Entity** MUST be the partition of the protocol client.

###### GetFieldTypeDescriptorsByMethodInstanceResponse

The **GetFieldTypeDescriptorsByMethodInstanceResponse** element specifies the result data for the **GetFieldTypeDescriptorsByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetFieldTypeDescriptorsByMethodInstanceResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **TypeDescriptors** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetFilterDescriptorById

The **GetFilterDescriptorById** operation retrieves the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetFilterDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified MetadataObjectId is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **FilterDescriptor** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage** | The request WSDL message for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage** | The response WSDL message for the **GetFilterDescriptorById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorById** element.

###### BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetFilterDescriptorById** | The input data for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetFilterDescriptorByIdResponse** | The result data for the **GetFilterDescriptorById** WSDL operation. |

###### GetFilterDescriptorById

The **GetFilterDescriptorById** element specifies the input data for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**filterDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **FilterDescriptor** exists. If a **FilterDescriptor** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetFilterDescriptorByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetFilterDescriptorByIdResponse

The **GetFilterDescriptorByIdResponse** element specifies the result data for the **GetFilterDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetFilterDescriptorByIdResult" nillable="true" type="q9:FilterDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetFilterDescriptorByIdResult:** The [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) that was returned. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **FilterDescriptor** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** operation retrieves the [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) contained by the specified [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetFilterDescriptorsForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **Method** is set to zero ("0").[<73>](#Appendix_A_73" \o "Product behavior note 73) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **Method** with the specified **MetadataObjectId** does not exist.[<74>](#Appendix_A_74" \o "Product behavior note 74) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage** | The request WSDL message for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage** | The response WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorsForMethod** element.

###### BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetFilterDescriptorsForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetFilterDescriptorsForMethod** | The input data for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetFilterDescriptorsForMethodResponse** | The result data for the **GetFilterDescriptorsForMethod** WSDL operation. |

###### GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** element specifies the input data for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) for which the [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) are obtained.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetFilterDescriptorsForMethodResponse

The **GetFilterDescriptorsForMethodResponse** element specifies the result data for the **GetFilterDescriptorsForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetFilterDescriptorsForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetFilterDescriptorsForMethodResult" nillable="true" type="q9:ArrayOfFilterDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetFilterDescriptorsForMethodResult:** The list of [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **FilterDescriptors** MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfFilterDescriptorStruct** | Contains a list of [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). |

###### ArrayOfFilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of [**FilterDescriptors**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

1. <xs:complexType name="ArrayOfFilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct" nillable="true" type="q9:FilterDescriptorStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**FilterDescriptorStruct:** A **FilterDescriptor** of a [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetIdentifierById

The **GetIdentifierById** operation retrieves the [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetIdentifierById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An **Identifier** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage** | The request WSDL message for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage** | The response WSDL message for the **GetIdentifierById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifierById** element.

###### BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifierByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetIdentifierById** | The input data for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetIdentifierByIdResponse** | The result data for the **GetIdentifierById** WSDL operation. |

###### GetIdentifierById

The **GetIdentifierById** element specifies the input data for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifierById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**identifierId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0).

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

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetIdentifierByIdResponse

The **GetIdentifierByIdResponse** element specifies the result data for the **GetIdentifierById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifierByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetIdentifierByIdResult" nillable="true" type="q9:IdentifierStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetIdentifierByIdResult:** The [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) that was returned. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Identifier** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetIdentifiersForEntity

The **GetIdentifiersForEntity** operation retrieves the [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) contained by the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetIdentifiersForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **Entity** is set to zero ("0").[<75>](#Appendix_A_75" \o "Product behavior note 75) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | An **Entity** with the specified **MetadataObjectId** does not exist.[<76>](#Appendix_A_76" \o "Product behavior note 76) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage** | The request WSDL message for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage** | The response WSDL message for the **GetIdentifiersForEntity** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifiersForEntity** element.

###### BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetIdentifiersForEntityResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetIdentifiersForEntity** | The input data for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetIdentifiersForEntityResponse** | The result data for the **GetIdentifiersForEntity** WSDL operation. |

###### GetIdentifiersForEntity

The **GetIdentifiersForEntity** element specifies the input data for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifiersForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) for which the [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) are to be obtained.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetIdentifiersForEntityResponse

The **GetIdentifiersForEntityResponse** element specifies the result data for the **GetIdentifiersForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetIdentifiersForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetIdentifiersForEntityResult" nillable="true" type="q9:ArrayOfIdentifierStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetIdentifiersForEntityResult:** The list of [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Identifiers** MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfIdentifierStruct** | Contains a list of [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0). |

###### ArrayOfIdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of [**Identifiers**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0).

1. <xs:complexType name="ArrayOfIdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true" type="q9:IdentifierStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**IdentifierStruct:** An **Identifier** of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetImportProgress

The **GetImportProgress** operation retrieves the progress of an [**ImportPackageWithProgress**](#Section_b6614c4331e54b8f97a379f31e035c1e) operation, using the unique identifier provided by the client at the creation of the import operation.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetImportProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage** response message, unless any faults occur.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage** | The request WSDL message for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage** | The response WSDL message for the **GetImportProgress** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetImportProgress** element.

###### BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetImportProgressResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetImportProgress** | The input data for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetImportProgressResponse** | The result data for the **GetImportProgress** WSDL operation. |

###### GetImportProgress

The **GetImportProgress** element specifies the input data for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetImportProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="jobId" type="ser:guid"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**jobId:** The identifier of the import operation for which the progress is to be retrieved.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetImportProgressResponse

The **GetImportProgressResponse** element specifies the result data for the **GetImportProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetImportProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetImportProgressResult:** The fraction of the operation that is finished. The value MUST be in the range 0-1. The value MUST be zero if **jobId** is not recognized as a current import job.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** operation retrieves the depth of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the **TypeDescriptor** tree. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth zero. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1, plus the depth of the containing **TypeDescriptor**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLevelForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **TypeDescriptor** is set to zero ("0").[<77>](#Appendix_A_77" \o "Product behavior note 77) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | At least one of the following is true:   * The specified **TypeDescriptor** does not exist.[<78>](#Appendix_A_78" \o "Product behavior note 78) * The specified **TypeDescriptor** is not the root of the **TypeDescriptor** tree, and the parent of the specified **TypeDescriptor** does not exist. * An ancestor of the specified **TypeDescriptor** is not the root of the **TypeDescriptor** tree that contains the specified **TypeDescriptor**, and the parent of the ancestor does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage** | The request WSDL message for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage** | The response WSDL message for the **GetLevelForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLevelForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLevelForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLevelForTypeDescriptor** | The input data for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLevelForTypeDescriptorResponse** | The result data for the **GetLevelForTypeDescriptor** WSDL operation. |

###### GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** element specifies the input data for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLevelForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="typeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**typeDescriptorStruct:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **TypeDescriptor** MUST be the partition of the protocol client.

###### GetLevelForTypeDescriptorResponse

The **GetLevelForTypeDescriptorResponse** element specifies the result data for the **GetLevelForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLevelForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult" type="xs:unsignedInt"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLevelForTypeDescriptorResult:** The depth of the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the **TypeDescriptor** tree that contains the **TypeDescriptor**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** operation retrieves the Business Logic Modules associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) if the **systemType** element of the specified **LobSystem** is not set to "Custom". If the **systemType** element of the specified **LobSystem** is set to "Custom", the behavior of this operation is implementation-specific[<79>](#Appendix_A_79" \o "Product behavior note 79).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemAllAssembliesBytes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to read[<80>](#Appendix_A_80" \o "Product behavior note 80) the specified **LobSystem**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is set to zero ("0"). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage** | The request WSDL message for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage** | The response WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemAllAssembliesBytes** element.

###### BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemAllAssembliesBytesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemAllAssembliesBytes** | The input data for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemAllAssembliesBytesResponse** | The result data for the **GetLobSystemAllAssembliesBytes** WSDL operation. |

###### GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** element specifies the input data for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemAllAssembliesBytes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **LobSystem** MUST be the partition of the protocol client.

###### GetLobSystemAllAssembliesBytesResponse

The **GetLobSystemAllAssembliesBytesResponse** element specifies the result data for the **GetLobSystemAllAssembliesBytes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemAllAssembliesBytesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true" type="q12:ArrayOfbase64Binary"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemAllAssembliesBytesResult:** The list of [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). If the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) is not associated with any Business Logic Module, the protocol server MUST set the value of the element to NULL.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemById

The **GetLobSystemById** operation retrieves the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the **LobSystem** with the specified **MetadataObjectId**, and the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| **AccessDeniedExceptionState** (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) | The specified **LobSystem** does not exist, the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, and the **performErrorCheck** element in the **GetLobSystemById** operation is set to "False". |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **LobSystem** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage** | The request WSDL message for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage** | The response WSDL message for the **GetLobSystemById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemById** element.

###### BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemById** | The input data for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemByIdResponse** | The result data for the **GetLobSystemById** WSDL operation. |

###### GetLobSystemById

The **GetLobSystemById** element specifies the input data for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that is to be retrieved.

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **LobSystem** with the specified **MetadataObjectId** exists. If a **LobSystem** with the specified **MetadataObjectId** does not exist, the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is not present in the SOAP request and this element is set to "false", the protocol server MUST set the value of the **GetLobSystemByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetLobSystemByIdResponse

The **GetLobSystemByIdResponse** element specifies the result data for the **GetLobSystemById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemByIdResult" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemByIdResult:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the **LobSystem** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemByName

The **GetLobSystemByName** operation retrieves the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to read[<81>](#Appendix_A_81" \o "Product behavior note 81) the specified **LobSystem**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The specified name exceeds 255 characters. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage** | The request WSDL message for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage** | The response WSDL message for the **GetLobSystemByName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemByName** element.

###### BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemByNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemByName** | The input data for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemByNameResponse** | The result data for the **GetLobSystemByName** WSDL operation. |

###### GetLobSystemByName

The **GetLobSystemByName** element specifies the input data for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**name:** The name of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetLobSystemByNameResponse

The **GetLobSystemByNameResponse** element specifies the result data for the **GetLobSystemByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemByNameResult" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemByNameResult:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) with the specified name. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **LobSystem** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** operation retrieves [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<82>](#Appendix_A_82" \o "Product behavior note 82) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemDataByLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition | |
| --- | --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified **LobSystem**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is set to zero ("0").[<83>](#Appendix_A_83" \o "Product behavior note 83) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | | The specified **LobSystem** does not exist.[<84>](#Appendix_A_84" \o "Product behavior note 84) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage** | The request WSDL message for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage** | The response WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemDataByLobSystem** element.

###### BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemDataByLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemDataByLobSystem** | The input data for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemDataByLobSystemResponse** | The result data for the **GetLobSystemDataByLobSystem** WSDL operation. |

###### GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** element specifies the input data for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemDataByLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **LobSystem** MUST be the partition of the protocol client.

###### GetLobSystemDataByLobSystemResponse

The **GetLobSystemDataByLobSystemResponse** element specifies the result data for the **GetLobSystemDataByLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemDataByLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true" type="tns2:ProxyGenerationResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemDataByLobSystemResult:** The information about the [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<85>](#Appendix_A_85" \o "Product behavior note 85) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemInstanceById

The **GetLobSystemInstanceById** operation retrieves the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition | |
| --- | --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the **LobSystemInstance** with the specified **MetadataObjectId**, and the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| **AccessDeniedExceptionState** (from namespace  http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) | | The specified **LobSystemInstance** does not exist , and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request, and the **performErrorCheck** element in the request is set to "False". |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). | |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **LobSystemInstance** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". | |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage** | The request WSDL message for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage** | The response WSDL message for the **GetLobSystemInstanceById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstanceById** element.

###### BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstanceByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemInstanceById** | The input data for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemInstanceByIdResponse** | The result data for the **GetLobSystemInstanceById** WSDL operation. |

###### GetLobSystemInstanceById

The **GetLobSystemInstanceById** element specifies the input data for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemInstanceId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **LobSystemInstance** with the specified **MetadataObjectId** exists. If a **LobSystemInstance** with the specified **MetadataObjectId** does not exist, the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is not present in the SOAP request and this element is set to "false", the protocol server MUST set the value of the **GetLobSystemInstanceByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetLobSystemInstanceByIdResponse

The **GetLobSystemInstanceByIdResponse** element specifies the result data for the **GetLobSystemInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemInstanceByIdResult" nillable="true" type="q9:LobSystemInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemInstanceByIdResult:** The [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **LobSystemInstance** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** operation retrieves the list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) of the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). If the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, only the **LobSystemInstances** that the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is authorized to read[<86>](#Appendix_A_86" \o "Product behavior note 86) that are also contained by the specified **LobSystem** are retrieved.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemInstancesForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0").[<87>](#Appendix_A_87" \o "Product behavior note 87) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist.[<88>](#Appendix_A_88" \o "Product behavior note 88) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage** | The request WSDL message for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage** | The response WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstancesForLobSystem** element.

###### BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemInstancesForLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemInstancesForLobSystem** | The input data for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemInstancesForLobSystemResponse** | The result data for the **GetLobSystemInstancesForLobSystem** WSDL operation. |

###### GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** element specifies the input data for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstancesForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**partitionId:** The partition (1) of the protocol client.

###### GetLobSystemInstancesForLobSystemResponse

The **GetLobSystemInstancesForLobSystemResponse** element specifies the result data for the **GetLobSystemInstancesForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemInstancesForLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemInstancesForLobSystemResult" nillable="true" type="q9:ArrayOfLobSystemInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemInstancesForLobSystemResult:** The list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) of the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The partition (1) of these **LobSystemInstances** MUST be the partition (1) of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfLobSystemInstanceStruct** | Contains a list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1). |

###### ArrayOfLobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type contains a list of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).

1. <xs:complexType name="ArrayOfLobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct" nillable="true" type="q9:LobSystemInstanceStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**LobSystemInstanceStruct:** This element contains information about a **LobSystemInstance**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** operation retrieves the implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<89>](#Appendix_A_89" \o "Product behavior note 89) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to read[<90>](#Appendix_A_90" \o "Product behavior note 90) the specified **LobSystem**, and the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **LobSystem** is set to zero ("0"). |
| [**InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_0160fbe51de542349f26b5aada23d3c1) | The specified **LobSystem** has an invalid value for the **Property** named **SystemUtilityTypeName**. Validity of this **Property** is specified in section [3.1.4.83.2.2](#Section_cb16a41404344bd0a6ec2545dc859177). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage** | The request WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage** | The response WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

###### BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemProxyAssemblyBytesByLobSystemId** | The input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** | The result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation. |

###### GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** element specifies the input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) from which to retrieve the implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **LobSystem** MUST be the partition of the protocol client.

###### GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element specifies the result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult" nillable="true" type="xs:base64Binary"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemProxyAssemblyBytesByLobSystemIdResult:** The implementation-specific [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<91>](#Appendix_A_91" \o "Product behavior note 91) associated with the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the first defined **Business Logic Module**, as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.23. If the **LobSystem** does not exist or no **Business Logic Module** is found for the specified **LobSystem**, this element MUST be NULL.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemsLikeName

The **GetLobSystemsLikeName** operation retrieves the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that match the specified wildcard pattern.

If the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, only the **LobSystems** that the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.

A **LobSystem** matches the wildcard pattern specified by **searchLikeName** if any of the following conditions is true:

* The **searchLikeName** matches the name of the **LobSystem**.
* The **searchLikeName** matches the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **LobSystem** and the **LobSystem**’s localized name has its [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) set to zero or set to the **LCID** specified by **callerCultureLcid**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemsLikeName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage** | The request WSDL message for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage** | The response WSDL message for the **GetLobSystemsLikeName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsLikeName** element.

###### BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsLikeNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemsLikeName** | The input data for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemsLikeNameResponse** | The result data for the **GetLobSystemsLikeName** WSDL operation. |

###### GetLobSystemsLikeName

The **GetLobSystemsLikeName** element specifies the input data for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsLikeName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**searchLikeName:** The wildcard pattern to be used to retrieve the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) in which the name or [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) matches the wildcard pattern. The following code example shows the [**ABNF**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf) for the **searchLikeName**.

1. searchLikeName = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. 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.

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**callerCultureLcid:** The [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale to be used when retrieving the **LobSystems**.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetLobSystemsLikeNameResponse

The **GetLobSystemsLikeNameResponse** element specifies the result data for the **GetLobSystemsLikeName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsLikeNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemsLikeNameResult" nillable="true" type="q9:ArrayOfLobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemsLikeNameResult:** The list of [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **LobSystems** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** operation retrieves the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) referenced by [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) associated with the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). If the CameThroughRemoteAdminService header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, only the **LobSystems** that the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is authorized to read[<92>](#Appendix_A_92" \o "Product behavior note 92) that are also referenced by **Entities** associated with the specified **Model** are retrieved.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0").[<93>](#Appendix_A_93" \o "Product behavior note 93) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Model** does not exist.[<94>](#Appendix_A_94" \o "Product behavior note 94) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage** | The request WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage** | The response WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

###### BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetLobSystemsReferencedByEntitiesAssociatedWithModel** | The input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** | The result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation. |

###### GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element specifies the input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
5. <xs:element xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" minOccurs="0" name="queryMode" type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**modelId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

**queryMode:** The mode that specifies the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to be retrieved. This value MUST be an **LobSystemConstants.LobSystemsInModelQuery** element.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element specifies the result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true" type="q9:ArrayOfLobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetLobSystemsReferencedByEntitiesAssociatedWithModelResult:** The list of [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **LobSystems** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **LobSystemConstants.LobSystemsInModelQuery** | Specifics the mode in which to retrieve [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66). |

###### LobSystemConstants.LobSystemsInModelQuery

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

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode that determines the [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) to be retrieved.

1. <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="AllLobSystemsInModel"/>
4. <xs:enumeration value="OwnedLobSystemsInModel"/>
5. <xs:enumeration value="SharedLobSystemsInModel"/>
6. </xs:restriction>
7. </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**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). |
| 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**. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodById

The **GetMethodById** operation retrieves the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **Method** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodById\_InputMessage** | The request WSDL message for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage** | The response WSDL message for the **GetMethodById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodById** element.

###### BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodById** | The input data for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodByIdResponse** | The result data for the **GetMethodById** WSDL operation. |

###### GetMethodById

The **GetMethodById** element specifies the input data for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **Method** with the specified **MetadataObjectId** exists. If a **Method** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetMethodByIdResponse

The **GetMethodByIdResponse** element specifies the result data for the **GetMethodById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodByIdResult" nillable="true" type="q9:MethodStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodByIdResult:** The [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Method** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodInstanceById

The **GetMethodInstanceByID** operation retrieves the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **MethodInstance** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage** | The request WSDL message for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage** | The response WSDL message for the **GetMethodInstanceById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstanceById** element.

###### BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstanceByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodInstanceById** | The input data for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodInstanceByIdResponse** | The result data for the **GetMethodInstanceById** WSDL operation. |

###### GetMethodInstanceById

The **GetMethodInstanceById** element specifies the input data for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**methodInstanceId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **MethodInstance** with the specified **MetadataObjectId** exists. If a **MethodInstance** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetMethodInstanceByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetMethodInstanceByIdResponse

The **GetMethodInstanceByIdResponse** element specifies the result data for the **GetMethodInstanceById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodInstanceByIdResult" nillable="true" type="q9:MethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodInstanceByIdResult:** The [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MethodInstance** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** operation retrieves the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contained by the [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodInstancesForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **DataClass** does not exist.[<95>](#Appendix_A_95" \o "Product behavior note 95) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage** | The request WSDL message for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage** | The response WSDL message for the **GetMethodInstancesForDataClass** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForDataClass** element.

###### BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForDataClassResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodInstancesForDataClass** | The input data for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodInstancesForDataClassResponse** | The result data for the **GetMethodInstancesForDataClass** WSDL operation. |

###### GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** element specifies the input data for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetMethodInstancesForDataClassResponse

The **GetMethodInstancesForDataClassResponse** element specifies the result data for the **GetMethodInstancesForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForDataClassResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodInstancesForDataClassResult" nillable="true" type="q9:ArrayOfMethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodInstancesForDataClassResult:** The list of [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **MethodInstances** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** operation retrieves the [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contained by the specified [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodInstancesForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Method** does not exist.[<96>](#Appendix_A_96" \o "Product behavior note 96) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage** | The request WSDL message for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage** | The response WSDL message for the **GetMethodInstancesForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForMethod** element.

###### BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodInstancesForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodInstancesForMethod** | The input data for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodInstancesForMethodResponse** | The result data for the **GetMethodInstancesForMethod** WSDL operation. |

###### GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** element specifies the input data for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

**partitionId:** The partition (1) of the protocol client.

###### GetMethodInstancesForMethodResponse

The **GetMethodInstancesForMethodResponse** element specifies the result data for the **GetMethodInstancesForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodInstancesForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodInstancesForMethodResult" nillable="true" type="q9:ArrayOfMethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodInstancesForMethodResult:** The list of [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). The partition (1) of each of these **MethodInstances** MUST be the partition (1) of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetMethodsForDataClass

The **GetMethodsForDataClass** operation retrieves the [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) contained by the specified [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetMethodsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0").[<97>](#Appendix_A_97" \o "Product behavior note 97) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **DataClass** does not exist.[<98>](#Appendix_A_98" \o "Product behavior note 98) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage** | The request WSDL message for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage** | The response WSDL message for the **GetMethodsForDataClass** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodsForDataClass** element.

###### BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetMethodsForDataClassResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetMethodsForDataClass** | The input data for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetMethodsForDataClassResponse** | The result data for the **GetMethodsForDataClass** WSDL operation. |

###### GetMethodsForDataClass

The **GetMethodsForDataClass** element specifies the input data for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**dataClassId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a).

**partitionId:** The partition (1) of the protocol client.

###### GetMethodsForDataClassResponse

The **GetMethodsForDataClassResponse** element specifies the result data for the **GetMethodsForDataClass** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetMethodsForDataClassResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetMethodsForDataClassResult" nillable="true" type="q9:ArrayOfMethodStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetMethodsForDataClassResult:** The list of [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). The partition (1) of these **Methods** MUST be the partition (1) of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfMethodStruct** | Contains a list of [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219). |

###### ArrayOfMethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of [**Methods**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

1. <xs:complexType name="ArrayOfMethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true" type="q9:MethodStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**MethodStruct:** This element contains information about a **Method**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelById

The **GetModelById** operation retrieves the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **Model** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelById\_InputMessage** | The request WSDL message for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelById\_OutputMessage** | The response WSDL message for the **GetModelById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelById** element.

###### BusinessDataCatalogSharedService\_GetModelById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelById** | The input data for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelByIdResponse** | The result data for the **GetModelById** WSDL operation. |

###### GetModelById

The **GetModelById** element specifies the input data for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**modelId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **Model** with the specified **MetadataObjectId** exists. If a **Model** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetModelByIdResponse

The **GetModelByIdResponse** element specifies the result data for the **GetModelById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelByIdResult" nillable="true" type="q9:ModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelByIdResult:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelByName

The **GetModelByName** operation retrieves the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The specified name exceeds 255 characters. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Model** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage** | The request WSDL message for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage** | The response WSDL message for the **GetModelByName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelByName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelByName** element.

###### BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelByNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelByName** | The input data for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelByNameResponse** | The result data for the **GetModelByName** WSDL operation. |

###### GetModelByName

The **GetModelByName** element specifies the input data for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**name:** The name of the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetModelByNameResponse

The **GetModelByNameResponse** element specifies the result data for the **GetModelByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelByNameResult" nillable="true" type="q9:ModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelByNameResult:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelsByEntityId

The **GetModelsByEntityId** operation retrieves the [**Models**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) that reference the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelsByEntityId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Entity** does not exist.[<99>](#Appendix_A_99" \o "Product behavior note 99) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage** | The request WSDL message for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage** | The response WSDL message for the **GetModelsByEntityId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByEntityId** element.

###### BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByEntityIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelsByEntityId** | The input data for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelsByEntityIdResponse** | The result data for the **GetModelsByEntityId** WSDL operation. |

###### GetModelsByEntityId

The **GetModelsByEntityId** element specifies the input data for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByEntityId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**entityId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetModelsByEntityIdResponse

The **GetModelsByEntityIdResponse** element specifies the result data for the **GetModelsByEntityId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByEntityIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelsByEntityIdResult" nillable="true" type="q9:ArrayOfModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelsByEntityIdResult:** The list of [**Models**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Models** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetModelsByName

The **GetModelsByName** operation retrieves the [**Models**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) that match the specified wildcard pattern.

A **Model** matches the wildcard pattern specified by **wildcardedName** if any of the following conditions is true:

* **WildcardedName** matches the name of the **Model**.
* **WildcardedName** matches the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) of the **Model** and the model’s localized name has its LCID set to zero or set to the LCID specified by callerCultureLcid.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetModelsByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

| Error complex type | Condition |
| --- | --- |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage** | The request WSDL message for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage** | The response WSDL message for the **GetModelsByName** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByName** element.

###### BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetModelsByNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetModelsByName** | The input data for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetModelsByNameResponse** | The result data for the **GetModelsByName** WSDL operation. |

###### GetModelsByName

The **GetModelsByName** element specifies the input data for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**wildcardedName:** The wildcard pattern to be used to retrieve the [**Models**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) whose name or [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) matches the wildcard pattern. The following code example shows the [**ABNF**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf) for the **wildcardedName**.

1. wildcardedName = 1 \* (Literal / Escape / Wildcard)
2. Literal = %x00-29 / %x2B-5B / %x5D-FF
3. Wildcard = %x2A
4. Escape = EscapeBackSlash / EscapeWildcard
5. EscapeBackSlash = %x5C %x5C
6. 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.

1. EscapeBackSlash = %x5C
2. EscapeWildcard = %x2A
3. Wildcard = \*(%x00-FF)

**callerCultureLcid:** The [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) representing the locale to be used when retrieving the **Models**.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetModelsByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetModelsByNameResult" nillable="true" type="q9:ArrayOfModelStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetModelsByNameResult:** The list of [**Models**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **Models** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetParameterById

The **GetParameterById** operation retrieves the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **Parameter** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is set to "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage** | The request WSDL message for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage** | The response WSDL message for the **GetParameterById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetParameterById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParameterById** element.

###### BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParameterByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetParameterById** | The input data for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetParameterByIdResponse** | The result data for the **GetParameterById** WSDL operation. |

###### GetParameterById

The **GetParameterById** element specifies the input data for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **Parameter** with the specified **MetadataObjectId** exists. If a **Parameter** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetParameterByIdResponse

The **GetParameterByIdResponse** element specifies the result data for the **GetParameterById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetParameterByIdResult" nillable="true" type="q9:ParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetParameterByIdResult:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Parameter** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetParametersForMethod

The **GetParametersForMethod** operation retrieves the [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) of the specified [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetParametersForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0").[<100>](#Appendix_A_100" \o "Product behavior note 100) |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Method** does not exist.[<101>](#Appendix_A_101" \o "Product behavior note 101) |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage** | The request WSDL message for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage** | The response WSDL message for the **GetParametersForMethod** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParametersForMethod** element.

###### BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetParametersForMethodResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetParametersForMethod** | The input data for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetParametersForMethodResponse** | The result data for the **GetParametersForMethod** WSDL operation. |

###### GetParametersForMethod

The **GetParametersForMethod** element specifies the input data for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParametersForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetParametersForMethodResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetParametersForMethodResult" nillable="true" type="q9:ArrayOfParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetParametersForMethodResult:** The list of [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these Parameters MUST be the partition of the protocol client.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfParameterStruct** | Contains a list of [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |

###### ArrayOfParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfParameterStruct** complex type contains a list of [**Parameters**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

1. <xs:complexType name="ArrayOfParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true" type="q9:ParameterStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**ParameterStruct:** A **Parameter**.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** operation retrieves the root [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) of the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetRootTypeDescriptorForParameter" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Parameter** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage** | The request WSDL message for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage** | The response WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRootTypeDescriptorForParameter** element.

###### BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRootTypeDescriptorForParameterResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetRootTypeDescriptorForParameter** | The input data for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetRootTypeDescriptorForParameterResponse** | The result data for the **GetRootTypeDescriptorForParameter** WSDL operation. |

###### GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** element specifies the input data for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRootTypeDescriptorForParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetRootTypeDescriptorForParameterResponse

The **GetRootTypeDescriptorForParameterResponse** element specifies the result data for the **GetRootTypeDescriptorForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRootTypeDescriptorForParameterResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetRootTypeDescriptorForParameterResult" nillable="true" type="q9:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetRootTypeDescriptorForParameterResult:** The root [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **TypeDescriptor** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetServiceApplicationId

The **GetServiceApplicationId** operation retrieves the unique implementation-specific identifier of a [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetServiceApplicationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage** response message, unless any faults occur.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage** | The request WSDL message for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage** | The response WSDL message for the **GetServiceApplicationId** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetServiceApplicationId** element.

###### BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetServiceApplicationIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetServiceApplicationId** | The input data for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetServiceApplicationIdResponse** | The result data for the **GetServiceApplicationId** WSDL operation. |

###### GetServiceApplicationId

The **GetServiceApplicationId** element specifies the input data for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetServiceApplicationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

###### GetServiceApplicationIdResponse

The **GetServiceApplicationIdResponse** element specifies the result data for the **GetServiceApplicationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetServiceApplicationIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetServiceApplicationIdResult:** The unique implementation-specific identifier of a [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The value of the identifier MUST be a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** operation retrieves the implementation-specific identifier of the module that executes operations in the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) corresponding to the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero "0". |
| [**InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_0160fbe51de542349f26b5aada23d3c1) | The specified **LobSystem** has an invalid value for the **Property** named **SystemUtilityTypeName**. Validity of this **Property** is specified in section [3.1.4.83.2.2](#Section_cb16a41404344bd0a6ec2545dc859177). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage** | The request WSDL message for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage** | The response WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetSystemUtilityTypeNameForLobSystem** element.

###### BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetSystemUtilityTypeNameForLobSystem** | The input data for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetSystemUtilityTypeNameForLobSystemResponse** | The result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation. |

###### GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** element specifies the input data for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetSystemUtilityTypeNameForLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="lobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**lobSystemStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

###### GetSystemUtilityTypeNameForLobSystemResponse

The **GetSystemUtilityTypeNameForLobSystemResponse** element specifies the result data for the **GetSystemUtilityTypeNameForLobSystem** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetSystemUtilityTypeNameForLobSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetSystemUtilityTypeNameForLobSystemResult:** The implementation-specific[<102>](#Appendix_A_102" \o "Product behavior note 102) identifier of the module that runs operations in the [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetThrottlingRules

The **GetThrottlingRules** operation retrieves all [**throttle configuration settings**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) used by the protocol server.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetThrottlingRules" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesResponse" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage** response message, unless any faults occur.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage** | The request WSDL message for the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage** | The response WSDL message for the **GetThrottlingRules** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetThrottlingRules** element.

###### BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetThrottlingRulesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetThrottlingRules** | The input data for the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetThrottlingRulesResponse** | The result data for the **GetThrottlingRules** WSDL operation. |

###### GetThrottlingRules

The **GetThrottlingRules** element specifies the input data for the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetThrottlingRules" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

###### GetThrottlingRulesResponse

The **GetThrottlingRulesResponse** element specifies the result data for the **GetThrottlingRules** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetThrottlingRulesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetThrottlingRulesResult" nillable="true" type="q9:ArrayOfSafetyNetStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetThrottlingRulesResult:** The list of [**throttle configuration settings**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfSafetyNetStruct** | Contains a list of [**throttle configuration settings**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0). |

###### ArrayOfSafetyNetStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfSafetyNetStruct** complex type contains a list of [**throttle configuration settings**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0).

1. <xs:complexType name="ArrayOfSafetyNetStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
4. </xs:sequence>
5. </xs:complexType>

**SafetyNetStruct:** A throttle configuration setting.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeDescriptorById

The **GetTypeDescriptorById** operation retrieves the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) with the specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding server error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified **MetadataObjectId** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | A **TypeDescriptor** with the specified **MetadataObjectId** does not exist in the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client, and the value of the **performErrorCheck** element is "true". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage** | The request WSDL message for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage** | The response WSDL message for the **GetTypeDescriptorById** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorById** element.

###### BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeDescriptorById** | The input data for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeDescriptorByIdResponse** | The result data for the **GetTypeDescriptorById** WSDL operation. |

###### GetTypeDescriptorById

The **GetTypeDescriptorById** element specifies the input data for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**typeDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**performErrorCheck:** The value of this element MUST be ignored by the protocol server if a **TypeDescriptor** with the specified **MetadataObjectId** exists. If a **TypeDescriptor** with the specified **MetadataObjectId** does not exist and this element is set to "false", the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetTypeDescriptorByIdResponse

The **GetTypeDescriptorByIdResponse** element specifies the result data for the **GetTypeDescriptorById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorByIdResult" nillable="true" type="q9:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeDescriptorByIdResult:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **TypeDescriptor** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorByNameAndLevelForParameter** operation SHOULD[<103>](#Appendix_A_103" \o "Product behavior note 103) retrieve the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) with the specified name and level contained by the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). The level of a TypeDescriptor is defined as follows:

* The level of the root **TypeDescriptor** is set to zero ("0").
* The level of the specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) is set to zero ("0"), or the specified level is less than zero. |
| **BdcExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) | Either the **Parameter** with the specified **MetadataObjectId** or the specified name of the **TypeDescriptor** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage** | The request WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage** | The response WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsByNameAndLevelForParameter** element.

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeDescriptorsByNameAndLevelForParameter** | The input data for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeDescriptorsByNameAndLevelForParameterResponse** | The result data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation. |

###### GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** element specifies the input data for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsByNameAndLevelForParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="level" type="xs:int"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**name:** The name of the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that are retrieved.

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**level:** The level of the **TypeDescriptors** that are retrieved.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetTypeDescriptorsByNameAndLevelForParameterResponse

The **GetTypeDescriptorsByNameAndLevelForParameterResponse** element specifies the result data for the **GetTypeDescriptorsByNameAndLevelForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeDescriptorsByNameAndLevelForParameterResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of each of these **TypeDescriptors** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** operation retrieves [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) referenced by the specified [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The specified [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the **FilterDescriptor** is set to zero ("0"). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage** | The request WSDL message for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage** | The response WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsForFilterDescriptor** element.

###### BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeDescriptorsForFilterDescriptor** | The input data for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeDescriptorsForFilterDescriptorResponse** | The result data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation. |

###### GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** element specifies the input data for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsForFilterDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**filterDescriptorId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### GetTypeDescriptorsForFilterDescriptorResponse

The **GetTypeDescriptorsForFilterDescriptorResponse** element specifies the result data for the **GetTypeDescriptorsForFilterDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeDescriptorsForFilterDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeDescriptorsForFilterDescriptorResult:** The list of [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that are referenced by the specified [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of these **TypeDescriptors** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** operation retrieves the implementation-specific name of the type of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) of the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTypeReflectorTypeNameForParameter" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **Parameter** is set to zero ("0"). |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage** | The request WSDL message for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage** | The response WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeReflectorTypeNameForParameter** element.

###### BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTypeReflectorTypeNameForParameterResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTypeReflectorTypeNameForParameter** | The input data for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTypeReflectorTypeNameForParameterResponse** | The result data for the **GetTypeReflectorTypeNameForParameter** WSDL operation. |

###### GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** element specifies the input data for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeReflectorTypeNameForParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**parameterStruct:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) whose name is to be retrieved by the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Parameter** MUST be the partition of the protocol client.

###### GetTypeReflectorTypeNameForParameterResponse

The **GetTypeReflectorTypeNameForParameterResponse** element specifies the result data for the **GetTypeReflectorTypeNameForParameter** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTypeReflectorTypeNameForParameterResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTypeReflectorTypeNameForParameterResult:** The implementation-specific name of the type of the [**TypeReflector**](#gt_6aa0d9b8-93ec-4f9a-bf39-d91a64627e1a) of the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetXmlSchemaForView

The **GetXmlSchemaForView** operation is obsolete and MUST NOT be used.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetXmlSchemaForView" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage** | The request WSDL message for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage** | The response WSDL message for the **GetXmlSchemaForView** WSDL operation. |

###### BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetXmlSchemaForView** element.

###### BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetXmlSchemaForViewResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetXmlSchemaForView** | The input data for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetXmlSchemaForViewResponse** | The result data for the **GetXmlSchemaForView** WSDL operation. |

###### GetXmlSchemaForView

The **GetXmlSchemaForView** element specifies the input data for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetXmlSchemaForView" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="methodInstanceStruct" nillable="true" type="q9:MethodInstanceStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**methodInstanceStruct:**  The MethodInstance.

###### GetXmlSchemaForViewResponse

The **GetXmlSchemaForViewResponse** element specifies the result data for the **GetXmlSchemaForView** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetXmlSchemaForViewResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetXmlSchemaForViewResult:**  A string that contains the resulting [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067). The XML schema MUST conform to [[XMLSCHEMA1]](http://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](http://go.microsoft.com/fwlink/?LinkId=90610). The [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) specified by the XML schema is implementation-specific. The XML schema MUST specify the root element that corresponds to the View. The name of the root element MUST be equal to the name of the View. The root element MUST contain exactly one XML element for each of the [**fields**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the View. The XML element is declared based on the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that correspond to fields.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### HaveRights

The **HaveRights** operation retrieves whether the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating has the specified permission on the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) based on the permissions specified by the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) associated with the specified **MetadataObject**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="HaveRights" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse" message="tns:BusinessDataCatalogSharedService\_HaveRights\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_HaveRights\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_HaveRights\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataObject** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_HaveRights\_InputMessage** | The request WSDL message for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_HaveRights\_OutputMessage** | The response WSDL message for the **HaveRights** WSDL operation. |

###### BusinessDataCatalogSharedService\_HaveRights\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **HaveRights** element.

###### BusinessDataCatalogSharedService\_HaveRights\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **HaveRightsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **HaveRights** | The input data for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **HaveRightsResponse** | The result data for the **HaveRights** WSDL operation. |

###### HaveRights

The **HaveRights** element specifies the input data for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="HaveRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" minOccurs="0" name="rights" type="q2:BdcRights"/>
6. <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**rights:** The permission to check.

**fallBack:** When the value of this element is "true", the protocol server MUST use the ACEs in the default **Setting** for the specified **MetadataObject** if there are no ACEs exist in the specified Setting for the specified **MetadataObject**.

**settingId:** The Setting that contains the ACEs. If the value of this element is NULL, the protocol server MUST use the ACEs contained by the default Setting.

###### HaveRightsResponse

The **HaveRightsResponse** element specifies the result data for the **HaveRights** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="HaveRightsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**HaveRightsResult:** If the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) 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".

##### Complex Types

None.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **BdcRights** | Specifies the permission given a [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) on a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). |

###### BdcRights

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

The **BdcRights** simple type represents a permission a given [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) can have on a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

1. <xs:simpleType name="BdcRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="Execute"/>
7. <xs:enumeration value="Edit"/>
8. <xs:enumeration value="SetPermissions"/>
9. <xs:enumeration value="UseInBusinessDataInLists"/>
10. <xs:enumeration value="SelectableInClients"/>
11. </xs:restriction>
12. </xs:simpleType>
13. </xs:list>
14. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| None | No permissions. |
| Execute | The security principal has the permission to invoke a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). |
| Edit | The security principal has permission to change the attributes of a **MetadataObject** or its relationship to other **MetadataObjects**. |
| SetPermissions | The security principal has permission to change the set of permissions for a **MetadataObject**. |
| UseInBusinessDataInLists | This value is obsolete and MUST NOT be used. |
| SelectableInClients | The security principal has permission to select the **MetadataObject** this permission refers to in an implementation-specific user interface from a list of available **MetadataObjects**. If the security principal does not have this permission, the **MetadataObject** SHOULD NOT be presented in such a list. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ImportPackage

The **ImportPackage** operation creates the following objects in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee), along with their **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) element that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34. If the MetadataModel contains a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) contained by that **LobSystem**, along with **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects**, and along with the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.
* Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.2.3.28.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ImportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackage\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises a [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a) error under any of the following conditions:

* The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.1.3.34.
* The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.2.3.28.
* The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and there is already another **Model** with the same name as the **Model** contained by the **MetadataModel** in the specified [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75).
* The **updateModel** element is set to "true", the "Model" value is specified for the **packageContents** element, and the **Model** contained by the **MetadataModel** does not exist in the specified partition.
* The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to create or modify the specified **Model**.
* The **security principal (1)** in whose context the protocol client is operating is not authorized to create or modify the specified **MetadataCatalog**.
* The "Model" value is not specified for the **packageContents** element, and at least one of the **MetadataObjects** contained by the **MetadataModel** does not exist in the metadata store.
* The "Model" value is specified for the **packageContents** element, and one of the **LobSystems** contained by the **MetadataModel** has the same name as a **LobSystem** in the metadata store. However, the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store.
* The "Model" value is specified for the **packageContents** element, and one of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store. However, the names of the **LobSystems** that contain these **Entities** are different.
* The "InlineProxies" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** with an associated [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type **TimeStampFilter**.
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database".
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
  + AccessChecker
  + AssociationNavigator
  + Associator
  + BinarySecurityDescriptorAccessor
  + BulkAssociatedIdEnumerator
  + BulkAssociationNavigator
  + BulkIdEnumerator
  + BulkSpecificFinder
  + ChangedIdEnumerator
  + DeletedIdEnumerator
  + Deleter
  + Disassociator
  + SpecificFinder
  + Updater
  + StreamAccessor
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
  + ChangedIdEnumerator
  + DeletedIdEnumerator

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ImportPackage\_InputMessage** | The request WSDL message for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage** | The response WSDL message for the **ImportPackage** WSDL operation. |

###### BusinessDataCatalogSharedService\_ImportPackage\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackage** element.

###### BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackageResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ImportPackage** | The input data for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ImportPackageResponse** | The result data for the **ImportPackage** WSDL operation. |

###### ImportPackage

The **ImportPackage** element specifies the input data for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="adminStruct" nillable="true" type="q9:AdministrationMetadataCatalogStruct"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

* If the "Model" value is specified, this operation MUST create [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The protocol server MUST set all [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) contained by the specified MetadataModel to active. If any of the **Entities** contain reference errors as specified in section [3.1.4.5.3.2](#Section_9e3e606433634cf2b4a98a6c53d3491c), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
* If the "Model" value is not specified, the protocol server MUST NOT create any **MetadataObjects**.
* If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding MetadataObjects. If the metadata store already contains a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified MetadataCatalog. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataCatalog** MUST be the partition of the protocol client.

**settingId:** The Setting in which to create the **Properties**, localized names, and ACEs.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

###### ImportPackageResponse

The **ImportPackageResponse** element specifies the result data for the **ImportPackage** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ImportPackageResult" nillable="true" type="q9:ModelStruct"/>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**ImportPackageResult:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that corresponds to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**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.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ImportPackageWithProgress

The **ImportPackageWithProgress** operation creates the following objects in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee), along with their Properties, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) element that conforms to the Business Data Connectivity Model file format specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34. If the **MetadataModel** contains a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) contained by that **LobSystem** along with **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that has the same name, namespace, and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects**, and along with the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.
* Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML element that conforms to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.

The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the [**GetImportProgress**](#Section_c921c560b8fe4e8991da11a619ab7c61) operation with the specified identifier.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ImportPackageWithProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises a [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a) error under any of the following conditions:

* The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.1.3.34.
* The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.3.28.
* The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and there is already another **Model** with the same name as the **Model** contained by the MetadataModel in the specified [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75).
* The **updateModel** element is set to "false", the "Model" value is specified for the **packageContents** element, and another **Model** with the same name already exists in the metadata store.
* The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to create or modify the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).
* The **security principal (1)** in whose context the protocol client is operating is not authorized to create or modify the specified **MetadataCatalog**.
* The **updateModel** element is set to "true", the "Model" value is specified for the **packageContents** element, and the **Model** contained by the **MetadataModel** does not exist in the specified partition.
* The "Model" value is not specified for the **packageContents** element, and at least one of the MetadataObjects contained by the **MetadataModel** does not exist in the metadata store.
* The "Model" value is specified for the **packageContents** element, and one of the LobSystems contained by the **MetadataModel** has the same name as a **LobSystem** in the metadata store. However, the **LobSystem** contained by the **MetadataModel** has a different type than the **LobSystem** in the metadata store.
* The "Model" value is specified for the **packageContents** element, and one of the Entities contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store. However, the names of the **LobSystems** that contain these **Entities** are different.
* The "InlineProxies" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** with an associated [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains more than one [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb)of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e).
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf) that specifies [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).
* 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**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has type specified as "Database".
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
  + AccessChecker
  + AssociationNavigator
  + Associator
  + BinarySecurityDescriptorAccessor
  + BulkAssociatedIdEnumerator
  + BulkAssociationNavigator
  + BulkIdEnumerator
  + BulkSpecificFinder
  + ChangedIdEnumerator
  + DeletedIdEnumerator
  + Deleter
  + Disassociator
  + SpecificFinder
  + Updater
  + StreamAccessor
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
  + ChangedIdEnumerator
  + DeletedIdEnumerator

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage** | The request WSDL message for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage** | The response WSDL message for the **ImportPackageWithProgress** WSDL operation. |

###### BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackageWithProgress** element.

###### BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ImportPackageWithProgressResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ImportPackageWithProgress** | The input data for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ImportPackageWithProgressResponse** | The result data for the **ImportPackageWithProgress** WSDL operation. |

###### ImportPackageWithProgress

The **ImportPackageWithProgress** element specifies the input data for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackageWithProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="adminStruct" nillable="true" type="q9:AdministrationMetadataCatalogStruct"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
10. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="jobId" type="ser:guid"/>
11. </xs:sequence>
12. </xs:complexType>
13. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

* If the "Model" value is specified, this operation MUST create [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The protocol server MUST set all [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) contained by the specified **MetadataModel** to active. If any of the **Entities** contain reference errors as specified in section [3.1.4.5.3.2](#Section_9e3e606433634cf2b4a98a6c53d3491c), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
* If the "Model" value is not specified, the protocol server MUST NOT create any **MetadataObjects**.
* If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) that contains the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) contained by the MetadataModel. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataCatalog** MUST be the partition of the protocol client.

**settingId:** The **Setting** in which to create the **Properties**, localized names, and ACEs.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

**jobId:** Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

###### ImportPackageWithProgressResponse

The **ImportPackageWithProgressResponse** element specifies the result data for the **ImportPackageWithProgress** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ImportPackageWithProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ImportPackageWithProgressResult" nillable="true" type="q9:ModelStruct"/>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**ImportPackageWithProgressResult:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that corresponds to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**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.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### IsMethodInstantiated

The **IsMethodInstantiated** operation checks whether the specified [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) contains at least one [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="IsMethodInstantiated" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage** response message, unless any faults occur.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage** | The request WSDL message for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage** | The response WSDL message for the **IsMethodInstantiated** WSDL operation. |

###### BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsMethodInstantiated** element.

###### BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsMethodInstantiatedResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **IsMethodInstantiated** | The input data for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IsMethodInstantiatedResponse** | The result data for the **IsMethodInstantiated** WSDL operation. |

###### IsMethodInstantiated

The **IsMethodInstantiated** element specifies the input data for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsMethodInstantiated" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**methodId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### IsMethodInstantiatedResponse

The **IsMethodInstantiatedResponse** element specifies the result data for the **IsMethodInstantiated** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsMethodInstantiatedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**IsMethodInstantiatedResult:** This element MUST be set to "true", if the **Method** contains at least one [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52). Otherwise, it MUST be set to "false".

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) contains any [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that is the [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) of any [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) contained by the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) containing the **Parameter**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="IsParameterReferencedByMethodInstance" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **Parameter** is set to zero ("0"). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Parameter** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage** | The request WSDL message for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage** | The response WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation. |

###### BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsParameterReferencedByMethodInstance** element.

###### BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **IsParameterReferencedByMethodInstanceResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **IsParameterReferencedByMethodInstance** | The input data for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IsParameterReferencedByMethodInstanceResponse** | The result data for the **IsParameterReferencedByMethodInstance** WSDL operation. |

###### IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** element specifies the input data for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsParameterReferencedByMethodInstance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**parameterId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### IsParameterReferencedByMethodInstanceResponse

The **IsParameterReferencedByMethodInstanceResponse** element specifies the result data for the **IsParameterReferencedByMethodInstance** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="IsParameterReferencedByMethodInstanceResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**IsParameterReferencedByMethodInstanceResult:** If this element is set to "true", the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) contains a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08). If set to "false", the specified **Parameter** SHOULD NOT contain a **ReturnTypeDescriptor****[<104>](#Appendix_A_104" \o "Product behavior note 104)**.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectCreate

The **MetadataObjectCreate** operation creates a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). If the specified **MetadataObject** is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) and another **MetadataCatalog** with the same [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) as the specified **MetadataCatalog** already exists, this operation MUST NOT change the state of the data in the metadata store[<105>](#Appendix_A_105" \o "Product behavior note 105).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **MetadataExceptionState** error if the MetadataObject specified in the **rawValues** element is an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) with the methodInstanceType not set to the following values:

* AssociationNavigator
* Associator
* Disassociator
* BulkAssociationNavigator
* BulkAssociatedIdEnumerator

This operation raises the **ArgumentNullException** error, from namespace http://schemas.datacontract.org/2004/07/System, under the following conditions:

* The **parentStruct** element is not set to the structure that is expected by this operation.
* The **parentStruct** element is set to null.
* The **rawValues** element specifies an **association** and any one of the elements **destinationEntityName**, **destinationEntityNamespace**, **sourceEntityNames** and **sourceEntityNamespaces** in the **Association** is null or not present in the request.

This operation raises an[**AccessDeniedExceptionState**](#Section_6d5fb12e20c5465194404eb32b85edb5)error, from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure, under the following conditions:

* The **rawValues** element specifies a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66), and the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the **MetadataCatalog** specified by the **parentStruct** element.
* The **rawValues** element specifies a [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1), and the security principal in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
* The **rawValues** element specifies an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0), and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **rawValues** element specifies an [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372), and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **rawValues** element specifies an [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f), and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element.
* The **rawValues** element specifies a **Method**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **rawValues** element specifies an [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053), and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **rawValues** element specifies a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
* The **rawValues** element specifies a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9), and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
* The **rawValues** element specifies a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb), and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
* The **rawValues** element specifies an Association, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Method** specified by the **parentStruct** element.

This operation raises the [**ArgumentException**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3)error, from namespacehttp://schemas.datacontract.org/2004/07/System, under the following conditions:

* The **rawValues** element specifies a **MetadataObject** with invalid attributes.
* The **rawValues** element specifies a **MethodInstance** that specifies a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that is not contained by any parameters that are contained by the method specified by the **parentStruct** element.
* The **rawValues** element specifies an **Identifier** with the **typeName** element set to null or empty.
* The **rawValues** element specifies a **MethodInstance** that specifies a **ReturnTypeDescriptor** that is contained by a parameter with the **Direction** attribute set to "In".
* The **rawValues** element specifies a **MethodInstance** that does not specify a **ReturnTypeDescriptor**, and the type of the specified **MethodInstance** is one of the following values:
  + AccessChecker
  + AssociationNavigator
  + BulkAssociatedIdEnumerator
  + BulkAssociationNavigator
  + BulkIdEnumerator
  + BulkSpecificFinder
  + ChangedIdEnumerator
  + DeletedIdEnumerator
  + Finder
  + IdEnumerator
  + Scalar
  + SpecificFinder
  + StreamAccessor
* The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** without the **IsCollection** value set in the **flags** element, and the type of the specified **MethodInstance** is one of the following values:
  + BulkAssociationNavigator
  + BulkIdEnumerator
  + BulkSpecificFinder
  + ChangedIdEnumerator
  + DeletedIdEnumerator
  + Finder
  + IdEnumerator
* The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with the **IsCollection** value set in the **flags** element, and the type of the specified **MethodInstance** is one of the following values:
  + AccessChecker
  + Creator
  + Scalar
  + SpecificFinder
  + StreamAccessor
* The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** with the **None** value set in the **flags** element, and the type of the specified **MethodInstance** is "StreamAccessor".
* The **rawValues** element specifies a **MethodInstance** that has a **ReturnTypeDescriptor** that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55), and the specified **MethodInstance** is a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf).
* The **rawValues** element specifies a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** of the **MethodInstance** also contains other **TypeDescriptors**, and the LobSystem that contains the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains the **Method** that contains the **MethodInstance** does not allow this configuration, and the specified **MethodInstance** is a **StreamAccessor**.
* The **rawValues** element specifies a **MethodInstance**, the **Method** specified by the **parentStruct** element does not contain a [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e), and the type of the specified **MethodInstance** is one of the following values:
  + ChangedIdEnumerator
  + DeletedIdEnumerator
* The **rawValues** element specifies a **MethodInstance** that requires an input, but the **Method** specified by **parentStruct** does not contain any parameters with the **Direction** attribute set to "In" or "InOut".
* The **rawValues** element specifies a **FilterDescriptor** of type **TimeStampFilter**, but the **Method** specified by the **parentStruct** already contains a **TimeStampFilter**.
* The **rawValues** element specifies a parameter with the **Direction** attribute set to "Return", but the **Method** specified by **parentStruct** already contains a parameter with the **Direction** attribute set to "Return".
* The **rawValues** element specifies an **Association** and the same **Entity** is specified as a source of the **Association** more than once.
* The **rawValues** element specifies an **Action** with the **position** element set to 0.

This operation raises the **BdcExceptionState** error under the following conditions:

* The **MetadataObject** specified in the **rawValues** element is an **Entity** or a **TypeDescriptor**.
* The **MetadataObject** specified in the **rawValues** element is an **Association**, but the **parentStruct** is not a **Method**.
* The **parentStruct** element is a **MetadataCatalog** that contains an **AccessControlEntry**, and the **principalName** of the **AccessControlEntry** specifies a nonexistent user name or domain group.

This operation raises the [**DuplicateMetadataObjectExceptionState error,**](#Section_6b084d33f77d4a0eb75bd158786cf4b0)from namespaceMicrosoft.SharePoint.BusinessData,under the following conditions:

* The **rawValues** element specifies an **LobSystem**, but an **LobSystem** with the same name already exists in the metadata store.
* The **rawValues** element specifies a **MethodInstance**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already contains a **MethodInstance** with the same name as the specified **MethodInstance**.
* The **rawValues** element specifies an **Association**, but the **DataClass** that contains the **Method** specified by the **parentStruct** element already contains a **Method** that contains an **Association** with the same name as the specified **Association**.
* The **MetadataObject** specified by the **parentStruct** element already contains a **MetadataObject** that has same name and type as the **MetadataObject** specified by the **rawValues** element.

This operation raises the [**ExceededMetadataObjectLimitExceptionState error, from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b)under the following conditions:

* The **MetadataObject** specified by the **parentStruct** element already contains the implementation-specific maximum number of **MetadataObjects** that have the same type as the **MetadataObject** specified by the **rawValues** element.
* The **rawValues** element specifies a **MethodInstance** of type [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533), [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740), [**Deleter**](#gt_d2fd6788-1494-4545-a132-8fe3978e63a9), [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4), [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4), or [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066), but the **DataClass** that contains the **Method** specified by the **parentStruct** element already has a **MethodInstance** of the same type.

This operation raises the [**MetadataObjectNotFoundExceptionState error, from namespace Microsoft.SharePoint.BusinessData**](#Section_101975b92f674db99107f1996954ced1), under the following conditions:

* The **MetadataObject** specified by the **parentStruct** element does not exist in the metadata store.
* The **rawValues** element specifies a **MetadataObject** other than **Association** that references another **MetadataObject** that does not exist in the metadata store.
* The **rawValues** element specifies an **Association** for which the specified **sourceEntityNames** and **sourceEntityNamespaces** each contain only one empty string element.

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

| MetadataObject | Action |
| --- | --- |
| Identifier | Set the **OrdinalNumber** attribute of the created **Identifier** to 1 plus the maximum value of the **OrdinalNumber** attributes of all the **Identifiers** contained by the **Entity** specified by the **parentStruct** element. |
| **Parameter** | Set the **OrdinalNumber** attribute of the created **Parameter** to 1 plus the maximum value of **OrdinalNumber** attributes of all the **Parameters** contained by the **Method** specified by the **parentStruct** element. |
| **MethodInstance** | Set the **IsDefault** attributes of all other **MethodInstances** of type equal to the type of the created **MethodInstance** in the **DataClass** that contains the **Method** specified by the **parentStruct** element to "false" if the **IsDefault** attribute is set to "true" for the created **MethodInstance**. If the **IsDefault** attribute is set to "false" for the created **MethodInstance** and the **DataClass** that contains the **Method** specified by the **parentStruct** element does not contain any other **MethodInstance** that has the type equal to the type of the created **MethodInstance**, the protocol server MUST set the **IsDefault** attribute of the created **MethodInstance** to "true". |
| **MethodInstance** | Copy the [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) 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**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage** | The request WSDL message for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage** | The response WSDL message for the **MetadataObjectCreate** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectCreate** element.

###### BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectCreateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectCreate** | The input data for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectCreateResponse** | The result data for the **MetadataObjectCreate** WSDL operation. |

###### MetadataObjectCreate

The **MetadataObjectCreate** element specifies the input data for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q9:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**rawValues:** Specifies the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to create. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

**parentStruct:** Specifies the **MetadataObject** in which to create the new **MetadataObject**. The partition of this **MetadataObject** MUST be the partition of the protocol client.

###### MetadataObjectCreateResponse

The **MetadataObjectCreateResponse** element specifies the result data for the **MetadataObjectCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="MetadataObjectCreateResult" nillable="true" type="q9:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MetadataObjectCreateResult:** The created **MetadataObject**. If the **MetadataObject** specified in the request is a [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) and a **MetadataCatalog** with the same [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) as the specified **MetadataCatalog** already exists in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd), this operation MUST return the existing **MetadataCatalog**[<106>](#Appendix_A_106" \o "Product behavior note 106).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectMergeXml

The **MetadataObjectMergeXml** operation merges the **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) into the existing [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have one of the following elements as the root element:

* An [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) element, as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.3.3.
* An [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) element, as specified in [MS-BDCMFFS] section 2.2.3.4.
* An [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) element, as specified in [MS-BDCMFFS] section 2.2.3.7.
* An [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) element, as specified in [MS-BDCMFFS] section 2.2.3.8.
* An [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) element, as specified in [MS-BDCMFFS] section 2.2.3.11.
* A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) element, as specified in [MS-BDCMFFS] section 2.2.3.12.
* An [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) element, as specified in [MS-BDCMFFS] section 2.2.3.14.
* A [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) element, as specified in [MS-BDCMFFS] section 2.2.3.17.
* A [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) element, as specified in [MS-BDCMFFS] section 2.2.3.18.
* A [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) element, as specified in [MS-BDCMFFS] section 2.2.3.24.
* A [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) element, as specified in [MS-BDCMFFS] section 2.2.3.25.
* A [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) element, as specified in [MS-BDCMFFS] section 2.2.3.28.
* A [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) element, as specified in [MS-BDCMFFS] section 2.2.3.29.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5)under the following conditions:

* The "Properties" value is specified in the **packageContents** element, the specified **MetadataModel** contains properties for a **MetadataObject**, and the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify that **MetadataObject**.
* The "LocalizedNames" value is specified in the **packageContents** element, the specified **MetadataModel** contains localized names for a **MetadataObject**, and the security principal in whose context the protocol client is operating is not authorized to modify that **MetadataObject**.
* The "Permissions" value is specified in the **packageContents** element, the specified **MetadataModel** contains ACEs for a **MetadataObject**, and the security principal in whose context the protocol client is operating is not authorized to set permissions for that **MetadataObject**.

This operation raises the [**BdcExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_c4f5546eef0f49d78fd11127fc063258) error under the following conditions:

* The **mergedStruct** element specifies a **TypeDescriptor**.
* The specified **MetadataModel** does not conform to the Business Data Connectivity Model file format specified in [MS-BDCMFFS] section 2.2.

This operation raises the [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) error if the specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of **Properties** and the **packageContents** element has "Properties" as its value.

This operation raises the [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58)error under the following conditions:

* The specified **MetadataModel** contains one or more **MetadataObjects** that already contain the implementation-specific maximum number of localized names, and the **packageContents** element has "LocalizedNames" as its value.
* The specified **MetadataModel** contains one or more **MetadataObjects** that does not contain an ACE that specifies "SetPermissions" permission, the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
  + Association
  + Entity
  + LobSystem
  + Method
  + MethodInstance
  + Model

This operation raises the [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a)error under the following conditions:

* One or more **MetadataObjects** specified by the **MetadataModel** do not exist in the metadata store.
* The **packageContents** element is set to "Model".

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage** | The request WSDL message for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage** | The response WSDL message for the **MetadataObjectMergeXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectMergeXml** element.

###### BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectMergeXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectMergeXml** | The input data for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectMergeXmlResponse** | The result data for the **MetadataObjectMergeXml** WSDL operation. |

###### MetadataObjectMergeXml

The **MetadataObjectMergeXml** element specifies the input data for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packgeContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q9:MetadataObjectStruct"/>
7. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="mergedStruct" nillable="true" type="q9:MetadataObjectStruct"/>
8. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packgeContents:** Specifies the parts of the **MetadataModel** to be merged into the existing [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The protocol server MUST use the following rules:

* If the "Properties" value is specified, the protocol server MUST merge the **Properties** for the corresponding **MetadataObjects** for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). During this merge, if a **Property** that has the same name as the **Property** specified by the **MetadataModel** already exists for the specified **MetadataObject**, the protocol server MUST remove the existing **Property** and create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **MetadataObject**, the protocol server MUST create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.
* If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified, the protocol server MUST merge the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a localized name that has the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) and **Setting** as the localized name specified by the **MetadataModel** already exists for the specified **MetadataObject**, the protocol server MUST remove the existing localized name and create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **MetadataObject**, the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
* If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
* If the "Permissions" value is specified and the **MetadataModel** specifies ACEs for a **MetadataObject** for the specified **Setting**, the protocol server MUST remove any existing ACEs for the specified **MetadataObject** for the specified **Setting**, and create new ACEs that correspond to the ACEs specified in the **MetadataModel** for the specified **Setting**.
* If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**parentStruct:** The parent **MetadataObject** of the **MetadataObject** specified by the **MetadataModel**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**mergedStruct:** The **MetadataObject** into which to merge the **Properties**, localized names, and ACEs. The attributes of the specified **MetadataObject** MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

| Root element name | Complex type |
| --- | --- |
| **Action** | [**ActionStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b538d33475a4aa4a746d6b2e546f42c) |
| **ActionParameter** | [**ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6bfe0b79db7a452d84319707a149c34a) |
| **Association** | [**AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_7ae77d0de1ae42fea94cfc116bb3a4fb) |
| **AssociationGroup** | [**AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_ef29b678c6474f4cb72b432f149d466b) |
| **Entity** | [**EntityStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_eeae11a17afa4b18b79176164a878d4f) |
| **FilterDescriptor** | [**FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_64561aa518ca411fb4266b4de0648cbe) |
| **Identifier** | [**IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_494682fcdfe84f619eaac9e5f038970e) |
| **LobSystem** | [**LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_7bd3cf4928584d13bbbcc78b4dd63d65) |
| **LobSystemInstance** | [**LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_037fc8923e3943a9a10e4859a046282b) |
| **Method** | [**MethodStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6663c94bcde5436f80041d49d50924bb) |
| **MethodInstance** | [**MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f9b4d6eb8883484b8b83178ded5c6a28) |
| **Model** | [**ModelStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_9a098ecaf4f545338408315a2befe185) |
| **Parameter** | [**ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_3bed25aaba15428d91608248805f10cc) |

**settingId:** The **Setting** to merge the **Properties**, localized names and ACEs. If this value is NULL, the protocol server MUST use the default **Setting** when performing the operation.

**callerCultureLcid:** Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

###### MetadataObjectMergeXmlResponse

The **MetadataObjectMergeXmlResponse** element specifies the result data for the **MetadataObjectMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectMergeXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="mergedStruct" nillable="true" type="q9:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**mergedStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) into which the **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and ACEs were merged. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this MetadataObject MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectReadXml

The **MetadataObjectReadXml** operation creates [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd), optionally along with their **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee)**[<107>](#Appendix_A_107" \o "Product behavior note 107)**. This operation creates **Properties**, localized names, and ACEs for the default [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). The operation also creates a default localized name for the specified **MetadataModel**, such that the **vlue** element, as specified in section [2.2.4.41](#Section_4e5929f1ae3145bb8694c171e6043ded), contains the name of the root element of the specified **MetadataModel**. If the same **MetadataObject** exists on the server, the **MetadataObjectReadXml** operation will ignore the **MetadataObject** specified in the XML representing the **MetadataModel** when the **MetadataObject** contains no properties. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2 and MUST have one of the following elements as the root element:

* An [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) element, as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.3.
* An [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) element, as specified in [MS-BDCMFFS] section 2.1.3.4.
* An [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) element, as specified in [MS-BDCMFFS] section 2.1.3.7.
* An [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) element, as specified in [MS-BDCMFFS] section 2.1.3.8.
* An [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) element, as specified in [MS-BDCMFFS] section 2.1.3.16.
* An [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) element, as specified in [MS-BDCMFFS] section 2.1.3.19.
* A [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) element, as specified in [MS-BDCMFFS] section 2.1.3.17.
* A [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) element, as specified in [MS-BDCMFFS] section 2.1.3.23.
* A [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) element, as specified in [MS-BDCMFFS] section 2.1.3.24.
* A [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) element, as specified in [MS-BDCMFFS] section 2.1.3.30.
* A [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) element, as specified in [MS-BDCMFFS] section 2.1.3.31.
* A [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) element, as specified in [MS-BDCMFFS] section 2.1.3.37.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the **MetadataException**(from namespace Microsoft.BusinessData.SharePoint) under the following conditions:

* The specified **MetadataModel** contains an **Association**, and the Method for which this **Association** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of the this **Association** is one of the following:
* AssociationNavigator
* Associator
* Disassociator

This operation raises the [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) under the following conditions:

* The **xml** element specifies a **LobSystem**, and the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) specified by the **parentStruct** element.
* The **xml** element specifies a **LobSystemInstance**, and the security principal in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
* The **xml** element specifies an **Entity**, and the security principal in whose context the protocol client is operating is not authorized to modify the **LobSystem** specified by the **parentStruct** element.
* The **xml** element specifies an **Identifier**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **xml** element specifies an **Action**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **xml** element specifies an **ActionParameter**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** that contains the **Action** specified by the **parentStruct** element.
* The **xml** element specifies a **Method**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **xml** element specifies an **AssociationGroup**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Entity** specified by the **parentStruct** element.
* The **xml** element specifies a **MethodInstance**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
* The **xml** element specifies a **Parameter**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
* The **xml** element specifies a **FilterDescriptor**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.
* The **xml** element specifies an **Association**, and the security principal in whose context the protocol client is operating is not authorized to modify the **Method** specified by the **parentStruct** element.

This operation raises the [**BdcExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_c4f5546eef0f49d78fd11127fc063258) error if the specified **MetadataModel** represents a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) or a **TypeDescriptor**.

This operation raises the [**DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0) error if the specified **MetadataModel** represents a **LobSystem**, but a **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) error if the specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names[<108>](#Appendix_A_108" \o "Product behavior note 108)and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of **Methods** allowed per **Entity**.

This operation raises the [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) error under the following conditions:

* The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE that specifies [**anonymous user**](#gt_b5c2f51b-87cd-4ad9-bf2b-7ed488edd698) to have permissions other than "Execute", the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
  + Association
  + Entity
  + LobSystem
  + Method
  + MethodInstance
* The specified **MetadataModel** contains one or more **MetadataObjects** that do not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" as its value, and the specified **MetadataObject** is one of the following:
  + Association
  + Entity
  + LobSystem
  + Method
  + MethodInstance

This operation raises the [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) error if the creation of the **MetadataObjects** in the specified **MetadataModel** cannot be finished because the parent **MetadataObjects** of the **MetadataObject** to be created cannot be found in the metadata store.

This operation raises the [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a) error under the following conditions:

* The specified **MetadataModel** does not conform to the format specified in [MS-BDCMFFS].
* One or more **Entities** in the specified **MetadataModel** already exist in a different **LobSystem**.
* The protocol server cannot find the **Parameter** that contains the **ReturnTypeDescriptor** associated with one of the **MethodInstances** contained by the specified **MetadataModel**.
* One or more of the **TypeDescriptors** specified in the **MetadataModel** have **DefaultValues**, but the **Method** that contains the **Parameter** that contains these **TypeDescriptors** does not contain the **MethodInstance** specified by **DefaultValues**.
* The "Model" value is not specified in the **packageContents** element.
* The "InlineProxies" value is specified in the **packageContents**, and the specified **MetadataModel** contains a **LobSystem** with an associated [**Business Logic Module**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656).
* The specified **MetadataModel** contains a **Method** that contains more than one **FilterDescriptor** of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e).
* The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return".
* The specified **MetadataModel** contains an **Association** which references the same **Entity** more than once as a source of the **Association**.
* The specified **MetadataModel** contains a [**StreamAccessor**](#gt_72a137ac-6ef5-47ac-8a77-bd0bc500abcf) that specifies a [**ReturnTypeDescriptor**](#gt_4ec58157-19f6-4f14-8a16-dcf540edbc08) that contains other [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).
* The specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** which contains this **StreamAccessor** has its type specified as "Database".
* The specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut" and the type of this **MethodInstance** is one of the following values:
  + AccessChecker
  + AssociationNavigator
  + Associator
  + BinarySecurityDescriptorAccessor
  + BulkAssociatedIdEnumerator
  + BulkAssociationNavigator
  + BulkIdEnumerator
  + BulkSpecificFinder
  + ChangedIdEnumerator
  + DeletedIdEnumerator
  + Deleter
  + Disassociator
  + SpecificFinder
  + Updater
  + StreamAccessor
* The specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter**, and the type of this **MethodInstance** is one of the following values:
  + ChangedIdEnumerator
  + DeletedIdEnumerator
* The **MetadataObject** specified in the input XML contains the same properties as the existing **MetadataObject** on server.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage** | The request WSDL message for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage** | The response WSDL message for the **MetadataObjectReadXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectReadXml** element.

###### BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectReadXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectReadXml** | The input data for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectReadXmlResponse** | The result data for the **MetadataObjectReadXml** WSDL operation. |

###### MetadataObjectReadXml

The **MetadataObjectReadXml** element specifies the input data for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q9:MetadataObjectStruct"/>
7. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q9:MetadataObjectStruct"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** The XML representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**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**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).
* 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects**.
* If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
* If the "Permissions" value is specified the protocol server MUST create the specified ACEs for the corresponding **MetadataObjects**.
* If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**parentStruct:** Specifies the **MetadataObject** in which to create the new **MetadataObject**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**readStruct:** The **MetadataObject** that corresponds to the root element of the specified **MetadataModel**. The attributes of the specified **MetadataObject** MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) in the following table.

| Root element name | Complex type |
| --- | --- |
| **Action** | [**ActionStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b538d33475a4aa4a746d6b2e546f42c) |
| **ActionParameter** | [**ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6bfe0b79db7a452d84319707a149c34a) |
| **Association** | [**AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_7ae77d0de1ae42fea94cfc116bb3a4fb) |
| **AssociationGroup** | [**AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_ef29b678c6474f4cb72b432f149d466b) |
| **Entity** | [**EntityStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_eeae11a17afa4b18b79176164a878d4f) |
| **FilterDescriptor** | [**FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_64561aa518ca411fb4266b4de0648cbe) |
| **Identifier** | [**IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_494682fcdfe84f619eaac9e5f038970e) |
| **LobSystem** | [**LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_7bd3cf4928584d13bbbcc78b4dd63d65) |
| **LobSystemInstance** | [**LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_037fc8923e3943a9a10e4859a046282b) |
| **Method** | [**MethodStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6663c94bcde5436f80041d49d50924bb) |
| **MethodInstance** | [**MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f9b4d6eb8883484b8b83178ded5c6a28) |
| **Parameter** | [**ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_3bed25aaba15428d91608248805f10cc) |

**callerCultureLcid:** Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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.

###### MetadataObjectReadXmlResponse

The **MetadataObjectReadXmlResponse** element specifies the result data for the **MetadataObjectReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q9:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**readStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) that specifies the created **MetadataObject**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the following objects from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd):

* [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) along with their **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15), if "Model" value is specified for the **packageContents** element. The XML MUST conform to [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.
* Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The XML MUST conform to [MS-BDCMFFS] section 2.2.

The **MetadataModel** used for this operation MUST contain the specified **MetadataObject**, and other **MetadataObjects** that are contained by the **MetadataModel**; it MUST NOT contain any other **MetadataObjects**.

If the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request, and if the specified **MetadataModel** contains [**LobSystems**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) 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**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MetadataObjectWriteXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) error under the following conditions:

* The security principal in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **MetadataObject** is a **LobSystem** or a [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1), and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request.
* The security principal in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**, the **Permissions** flag is set in **packageContents**, and the **CameThroughRemoteAdminService** header specified in section 3.1 is present in the SOAP request.

This operation raises the [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3)error if the **packageContents** element specifies an "InlineProxies" value but does not specify the "Model" value.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage** | The request WSDL message for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage** | The response WSDL message for the **MetadataObjectWriteXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectWriteXml** element.

###### BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MetadataObjectWriteXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MetadataObjectWriteXml** | The input data for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MetadataObjectWriteXmlResponse** | The result data for the **MetadataObjectWriteXml** WSDL operation. |

###### MetadataObjectWriteXml

The **MetadataObjectWriteXml** element specifies the input data for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectWriteXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to be retrieved. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75)of this **MetadataObject** MUST be the partition of the protocol client.

**packageContents:** Specifies the kind of data to retrieve for the specified **MetadataObject**. The protocol server MUST use the following rules:

* If the "Properties" value is specified, the protocol server MUST retrieve the **Properties** for the corresponding **MetadataObjects** from the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) and if the "Model" value is also specified, the protocol server MUST also retrieve the **Properties** from the default **Setting** that do not have the same name as the **Properties** in the specified **Setting**.
* If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).
* If the "LocalizedNames" value is specified, the protocol server MUST retrieve the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) as the localized names in the specified **Setting**.
* If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
* If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject**, and the "Model" value is also specified, the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**.
* If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.
* If the "InlineProxies" value is not specified, the protocol server MUST ignore [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) in the specified **MetadataModel**.

**settingId:** The **Setting** for which **Properties**, localized names, and ACEs are to be retrieved. If **Properties**, localized names, and ACEs are not retrieved, the protocol server MUST ignore the value of this element.

###### MetadataObjectWriteXmlResponse

The **MetadataObjectWriteXmlResponse** element specifies the result data for the **MetadataObjectWriteXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MetadataObjectWriteXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MetadataObjectWriteXmlResult:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that represents the [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598). The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table.

| Complex type | Root element |
| --- | --- |
| [**ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6bfe0b79db7a452d84319707a149c34a) | If the **packageContents** element is set to "Model", the [**ActionParameter**](#gt_2d4b2f0b-233c-4d7b-8b7e-89034f88bd6f) element as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.4. Otherwise, the **ActionParameter** element as specified in [MS-BDCMFFS] section 2.2.3.4. |
| [**ActionStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b538d33475a4aa4a746d6b2e546f42c) | If the **packageContents** element is set to "Model", the [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) element is as specified in [MS-BDCMFFS] section 2.1.3.3. Otherwise, the **Action** element is as specified in [MS-BDCMFFS] section 2.2.3.3. |
| [**AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_ef29b678c6474f4cb72b432f149d466b) | If the **packageContents** element is set to "Model", the [**AssociationGroup**](#gt_e5aef95e-99ac-4a35-bc7d-a7906e306053) element is as specified in [MS-BDCMFFS] section 2.1.3.8. Otherwise, the **AssociationGroup** element is as specified in [MS-BDCMFFS] section 2.2.3.8. |
| [**AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_7ae77d0de1ae42fea94cfc116bb3a4fb) | If the **packageContents** element is set to "Model", the [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) element is as specified in [MS-BDCMFFS] section 2.1.3.7. Otherwise, the **Association** element is as specified in [MS-BDCMFFS] section 2.2.3.7. |
| [**EntityStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_eeae11a17afa4b18b79176164a878d4f) | If the **packageContents** element is set to "Model", the [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) element is as specified in [MS-BDCMFFS] section 2.1.3.16. Otherwise, the **Entity** element is as specified in [MS-BDCMFFS] section 2.2.3.11. |
| [**FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_64561aa518ca411fb4266b4de0648cbe) | If the **packageContents** element is set to "Model", the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) element is as specified in [MS-BDCMFFS] section 2.1.3.17. Otherwise, the **FilterDescriptor** element is as specified in [MS-BDCMFFS] section 2.2.3.12. |
| [**IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_494682fcdfe84f619eaac9e5f038970e) | If the **packageContents** element is set to "Model", the [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0) element is as specified in [MS-BDCMFFS] section 2.1.3.19. Otherwise, the **Identifier** element is as specified in [MS-BDCMFFS] section 2.2.3.14. |
| [**LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_7bd3cf4928584d13bbbcc78b4dd63d65) | If the "Model" value of **packageContents** is specified, the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) element is as specified in [MS-BDCMFFS] section 2.1.3.23. Otherwise, the **LobSystem** element is as specified in [MS-BDCMFFS] section 2.2.3.17. |
| [**LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_037fc8923e3943a9a10e4859a046282b) | If the "Model" value of **packageContents** is specified, the [**LobSystemInstance**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) element is as specified in [MS-BDCMFFS] section 2.1.3.24. Otherwise, the **LobSystemInstance** element is as specified in [MS-BDCMFFS] section 2.2.3.18. |
| [**MethodStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6663c94bcde5436f80041d49d50924bb) | If the "Model" value of **packageContents** is specified, the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) element is as specified in [MS-BDCMFFS] section 2.1.3.30. Otherwise, the **Method** element is as specified in [MS-BDCMFFS] section 2.2.3.24. |
| [**MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f9b4d6eb8883484b8b83178ded5c6a28) | If the "Model" value of **packageContents** is specified, the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) element is as specified in [MS-BDCMFFS] section 2.1.3.31. Otherwise, the **MethodInstance** element is as specified in [MS-BDCMFFS] section 2.2.3.25. |
| [**ModelStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_9a098ecaf4f545338408315a2befe185) | If the "Model" value of **packageContents** is specified, the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) element is as specified in [MS-BDCMFFS] section 2.1.3.34. Otherwise, the **Model** element is as specified in [MS-BDCMFFS] section 2.2.3.28. |
| [**ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)**](#Section_3bed25aaba15428d91608248805f10cc) | If the "Model" value of **packageContents** is specified, the [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) element is as specified in [MS-BDCMFFS] section 2.1.3.37. Otherwise, the **Parameter** element is as specified in [MS-BDCMFFS] section 2.2.3.29. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ModelReadXml

The **ModelReadXml** operation creates the [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the **MetadataObjects** are also created. The **MetadataModel** MUST be specified as [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that conforms to the Business Data Connectivity Model file format specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.34. If the **MetadataModel** contains a [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that has the same name and type as a **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server, along with all [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1) contained by that **LobSystem** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) that has the same name, namespace, and version as an **Entity** in the metadata store and the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server, along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** and the **Properties**, localized names, and ACEs of the ignored **MetadataObjects**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ModelReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) error if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8).This operation raises the **BdcExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) error under the following conditions:

* The specified **MetadataModel** contains one or more MetadataObjects with invalid attributes.
* The specified **MetadataModel** contains an [**Association**](#gt_31f420e5-34b9-4bb4-8f84-25774f7da874) element that specifies an **Entity** as a source more than once.
* The specified XML does not conform to the format specified in [MS-BDCMFFS].

This operation raises the [**DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0)error under the following conditions:

* The **updateModel** element is set to "false" and there is already a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) with the same name as the **Model** contained by the **MetadataModel** contained by the specified **MetadataCatalog**.
* The specified **MetadataModel** represents a **LobSystem**, but a **LobSystem** with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) error if the specified **MetadataModel** contains a **MetadataObject** that contains more objects of a type than the implementation-specific maximum number of that type of objects. **MetadataObjects**, **Properties**, localized names[<109>](#Appendix_A_109" \o "Product behavior note 109)and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an **Entity** contains more **Methods** than the implementation-specific maximum number of Methods allowed per Entity.

This operation raises the [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58)error under the following conditions:

* The specified **MetadataModel** contains one or more **MetadataObjects** that contain an ACE that specifies the [**anonymous user**](#gt_b5c2f51b-87cd-4ad9-bf2b-7ed488edd698) to have permissions other than "Execute", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:
  + Association
  + Entity
  + LobSystem
  + Method
  + MethodInstance
* The specified **MetadataModel** contains one or more **MetadataObjects** that does not contain an ACE that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified **MetadataObject** is one of the following:
  + Association
  + Entity
  + LobSystem
  + Method
  + MethodInstance

This operation raises the [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) error if the **updateModel** element is set to "true" and the specified **MetadataCatalog** does not contain the Model contained by the **MetadataModel**.

This operation raises the [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a) error under the following conditions:

* One of the **Entities** contained by the **MetadataModel** has the same name, namespace, and version as an **Entity** in the metadata store, but the names of the LobSystems that contain these **Entities** are not identical.
* The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the specified **MetadataCatalog** is set to zero ("0").
* The "Model" value is not specified in the **packageContents** element.
* The "InlineProxies" value is specified in **packageContents** element, and the specified **MetadataModel** contains a **LobSystem** element with an associated Business Logic Module.
* The specified **MetadataModel** contains a **Method** that contains more than one **TimeStampFilter**.
* The specified **MetadataModel** contains a **Method** that contains more than one **Parameter** with the **Direction** attribute set to "Return".
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** that specifies **ReturnTypeDescriptor** that contains other **TypeDescriptors**.
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **StreamAccessor** and the **TypeDescriptor** containing the **ReturnTypeDescriptor** of this **MethodInstance** contains another **TypeDescriptor** under its parent **TypeDescriptor**, and the **LobSystem** containing the **Entity** that contains this **StreamAccessor** has its type specified as "Database".
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, the **Method** containing this **MethodInstance** does not contain a **TimeStampFilter** and the type of this **MethodInstance** is one of the following values:
  + ChangedIdEnumerator
  + DeletedIdEnumerator
* The "Model" value is specified for the **packageContents** element, and the specified **MetadataModel** contains a **MethodInstance**, and the **Method** for which this **MethodInstance** is being created does not have a **Parameter** whose **Direction** is "In" or "InOut", and the type of this **MethodInstance** is one of the following values:
  + AccessChecker
  + AssociationNavigator
  + Associator
  + BinarySecurityDescriptorAccessor
  + BulkAssociatedIdEnumerator
  + BulkAssociationNavigator
  + BulkIdEnumerator
  + BulkSpecificFinder
  + ChangedIdEnumerator
  + DeletedIdEnumerator
  + Deleter
  + Disassociator
  + SpecificFinder
  + Updater
  + StreamAccessor

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage** | The request WSDL message for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage** | The response WSDL message for the **ModelReadXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ModelReadXml** element.

###### BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ModelReadXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ModelReadXml** | The input data for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ModelReadXmlResponse** | The result data for the **ModelReadXml** WSDL operation. |

###### ModelReadXml

The **ModelReadXml** element specifies the input data for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ModelReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="applicationRegistryStruct" nillable="true" type="q9:MetadataObjectStruct"/>
7. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
8. <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:**  The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies what part of the **MetadataModel** is to be created. The protocol server MUST use the following rules:

* If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). If the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) already contains a **Property** with the same name in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) that contains the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) contained by the **MetadataModel**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataCatalog** MUST be the partition of the protocol client.

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies whether the **Model** contained by the **MetadataModel** already exists in the metadata store. If this element is set to "true", the protocol server SHOULD remove all [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) references from the **Model**. Then, the protocol server SHOULD create **Entity** references in the **Model** for all **Entities** in the specified **MetadataModel****[<110>](#Appendix_A_110" \o "Product behavior note 110)**.

###### ModelReadXmlResponse

The **ModelReadXmlResponse** element specifies the result data for the **ModelReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ModelReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="ModelReadXmlResult" nillable="true" type="q9:ModelStruct"/>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**ModelReadXmlResult:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that corresponds to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** MUST be the partition of the protocol client.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ReadSlicedXml

The **ReadSlicedXml** operation creates the [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) or [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and its referenced [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c), along with the **Properties**, [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The MetadataModel is represented as an implementation-specific string. The **MetadataModel** MUST contain a single **Model** or **LobSystem**, along with all contained **MetadataObjects** and their **Properties** in all [**Settings**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78), localized names in all **Settings**, and ACEs in all **Settings**. The protocol client uses this operation to restore a backed-up **Model** or **LobSystem** to a specified [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). The [**WriteSlicedXml**](#Section_f6412d883b3e4d6285d0cc08b23300bf) operation, as specified in section 3.1.4.115, retrieves the **string** to be used as an input for this operation.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ReadSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
12. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a[**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8). |
| **PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)** | The "Model" value is not specified in the **packageContents** element. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage** | The request WSDL message for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage** | The response WSDL message for the **ReadSlicedXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReadSlicedXml** element.

###### BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReadSlicedXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ReadSlicedXml** | The input data for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ReadSlicedXmlResponse** | The result data for the **ReadSlicedXml** WSDL operation. |

###### ReadSlicedXml

The **ReadSlicedXml** element specifies the input data for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReadSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q9:MetadataObjectStruct"/>
7. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q9:MetadataObjectStruct"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** The implementation-specific **string** that represents the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee).

**packageContents:** The value of this element SHOULD[<111>](#Appendix_A_111" \o "Product behavior note 111) be set to "All".

**parentStruct:** The [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8)[<112>](#Appendix_A_112" \o "Product behavior note 112) to contain the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataCatalog** MUST be the partition of the protocol client.

**readStruct:** The value of this element MUST be a **Model** if the **MetadataModel** consists of a **Model**. Otherwise, the value of this element MUST be an **LobSystem**. The attributes of the specified **Model** or **LobSystem** MUST be ignored by the protocol server.

**callerCultureLcid:** Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 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.

###### ReadSlicedXmlResponse

The **ReadSlicedXmlResponse** element specifies the result data for the **ReadSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReadSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q9:MetadataObjectStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**errors:** Error messages that occurred while performing this operation.

**readStruct:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) or [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that corresponds to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** or **LobSystem** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveEntityFromModel

The **RemoveEntityFromModel** operation removes the reference to the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) from the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveEntityFromModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the specified Model. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the specified **Model** is different from the partition of the specified **Entity**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Entity** is not referenced by the specified **Model**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage** | The request WSDL message for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage** | The response WSDL message for the **RemoveEntityFromModel** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveEntityFromModel** element.

###### BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveEntityFromModelResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveEntityFromModel** | The input data for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveEntityFromModelResponse** | The result data for the **RemoveEntityFromModel** WSDL operation. |

###### RemoveEntityFromModel

The **RemoveEntityFromModel** element specifies the input data for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveEntityFromModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="modelStruct" nillable="true" type="q9:ModelStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q9:EntityStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**modelStruct:** The [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this element MUST be the partition of the protocol client.

**entityStruct:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). The partition of this element MUST be the partition of the protocol client.

###### RemoveEntityFromModelResponse

The **RemoveEntityFromModelResponse** element specifies the result data for the **RemoveEntityFromModel** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveEntityFromModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveLocalizedName

The **RemoveLocalizedName** operation removes the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) with the specified [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) from the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The localized name for the specified LCID does not exist in the specified **Setting** for the specified **MetadataObject**. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage** | The request WSDL message for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage** | The response WSDL message for the **RemoveLocalizedName** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveLocalizedName** element.

###### BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveLocalizedNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveLocalizedName** | The input data for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveLocalizedNameResponse** | The result data for the **RemoveLocalizedName** WSDL operation. |

###### RemoveLocalizedName

The **RemoveLocalizedName** element specifies the input data for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this element MUST be the partition of the protocol client.

**lcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) to be removed.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) from which to remove the localized name.

###### RemoveLocalizedNameResponse

The **RemoveLocalizedNameResponse** element specifies the result data for the **RemoveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveProperty

The **RemoveProperty** operation removes the specified **Property** from the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified **MetadataObject** in the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The **name** element is empty or "NULL". |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified **MetadataObject** does not contain the specified property. |
| **MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)** | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage** | The request WSDL message for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage** | The response WSDL message for the **RemoveProperty** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveProperty** element.

###### BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemovePropertyResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveProperty** | The input data for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemovePropertyResponse** | The result data for the **RemoveProperty** WSDL operation. |

###### RemoveProperty

The **RemoveProperty** element specifies the input data for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**name:** The name of the **Property** to be deleted.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to delete the **Property** from.

###### RemovePropertyResponse

The **RemovePropertyResponse** element specifies the result data for the **RemoveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemovePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveThrottlingRule

The **RemoveThrottlingRule** operation deletes the specified [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveThrottlingRule" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleResponse" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) that contains the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

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

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage** | The request WSDL message for the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage** | The response WSDL message for the **RemoveThrottlingRule** WSDL operation. |

###### BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveThrottlingRule** element.

###### BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveThrottlingRuleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveThrottlingRule** | The input data for the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveThrottlingRuleResponse** | The result data for the **RemoveThrottlingRule** WSDL operation. |

###### RemoveThrottlingRule

The **RemoveThrottlingRule** element specifies the input data for the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveThrottlingRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="safetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**safetyNetStruct:** The [**throttle configuration setting**](#gt_46d570c2-de10-42b0-8f52-fd0646fee5d0) that is to be deleted from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

###### RemoveThrottlingRuleResponse

The **RemoveThrottlingRuleResponse** element specifies the result data for the **RemoveThrottlingRule** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveThrottlingRuleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SaveLocalizedName

The **SaveLocalizedName** operation adds or replaces a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). If a localized name with the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) and [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) as the specified LCID and **Setting** already exists for the specified **MetadataObject**, the protocol server MUST replace the localized name of the specified **MetadataObject** with the specified localized name.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SaveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) that contains the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error Complex Type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified **MetadataObject** in the specified **Setting**. |
| [**ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_edc27edfebf84a4dbfecd154dd1089f6) | The specified localized name is set to null. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified **MetadataObject** already contains the implementation-specific maximum number of localized names. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage** | The request WSDL message for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage** | The response WSDL message for the **SaveLocalizedName** WSDL operation. |

###### BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveLocalizedName** element.

###### BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveLocalizedNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SaveLocalizedName** | The input data for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SaveLocalizedNameResponse** | The result data for the **SaveLocalizedName** WSDL operation. |

###### SaveLocalizedName

The **SaveLocalizedName** element specifies the input data for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**lcid:** The [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) to be saved.

**name:** The localized name of the **MetadataObject**.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to which to write the localized name.

###### SaveLocalizedNameResponse

The **SaveLocalizedNameResponse** element specifies the result data for the **SaveLocalizedName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SaveProperty

The **SaveProperty** operation adds or replaces a **Property** for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). If a **Property** with the same name as the specified **Property** already exists in the same [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) for the specified **MetadataObject**, the protocol server MUST replace the **Property** of the **MetadataObject** with the specified **Property**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SaveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SaveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified **MetadataObject** in the specified **Setting**. |
| [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) | The specified **MetadataObject** already contains the implementation-specific maximum number of **Properties**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **MetadataObject** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SaveProperty\_InputMessage** | The request WSDL message for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage** | The response WSDL message for the **SaveProperty** WSDL operation. |

###### BusinessDataCatalogSharedService\_SaveProperty\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveProperty** element.

###### BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SavePropertyResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SaveProperty** | The input data for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SavePropertyResponse** | The result data for the **SaveProperty** WSDL operation. |

###### SaveProperty

The **SaveProperty** element specifies the input data for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="propertyStruct" nillable="true" type="q9:PropertyStruct"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client.

**propertyStruct:** The **Property** to be saved. The value of its **metadataObjectId** MUST be ignored by the protocol server.

###### SavePropertyResponse

The **SavePropertyResponse** element specifies the result data for the **SaveProperty** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SavePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetAccessControlEntries

The **SetAccessControlEntries** operation sets [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) for the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The protocol server MUST delete all ACEs of the specified **MetadataObject** for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78), and then add the specified ACEs to the specified **MetadataObject**.

Note that if the **SetAccessControlEntries** element, as specified in section [3.1.4.107.2.1](#Section_48070d8bd8af4a3897e4edd8f995710a), contains an **accessControlEntries** element such that any two of its **AccessControlEntryStruct** elements contain the same value for the **principalName** element, the protocol server MUST add only one ACE for that **principalName**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to set permissions on the specified **MetadataObject**. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | At least one of the specified ACEs contain an invalid value for **principalName** element. |
| [**ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ed65b16c202247d7bd26e383acf8aad9) | The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) for the specified **MetadataObject** is set to zero ("0"). |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify [**anonymous user**](#gt_b5c2f51b-87cd-4ad9-bf2b-7ed488edd698) to have permissions other than "Execute". |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage** | The request WSDL message for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage** | The response WSDL message for the **SetAccessControlEntries** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetAccessControlEntries** element.

###### BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetAccessControlEntriesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetAccessControlEntries** | The input data for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetAccessControlEntriesResponse** | The result data for the **SetAccessControlEntries** WSDL operation. |

###### SetAccessControlEntries

The **SetAccessControlEntries** element specifies the input data for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="accessControlEntries" nillable="true" type="q9:ArrayOfAccessControlEntryStruct"/>
6. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **MetadataObject** MUST be the partition of the protocol client. The **MetadataObject** MUST be of one of the following types:

* [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb)
* [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66)
* [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8)
* [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219)
* [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52)
* [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79)

**accessControlEntries:** The ACEs.

**settingId:** The [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78) to which to write the ACEs.

###### SetAccessControlEntriesResponse

The **SetAccessControlEntriesResponse** element specifies the result data for the **SetAccessControlEntries** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetAccessControlEntriesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetDefaultActionForEntity

The **SetDefaultActionForEntity** operation sets the default [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) for the specified [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetDefaultActionForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage** response message, unless any faults occur.

If either of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) that contains the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified **Entity**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **Entity** does not exist or does not contain an **Action** with the specified name. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage** | The request WSDL message for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage** | The response WSDL message for the **SetDefaultActionForEntity** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultActionForEntity** element.

###### BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultActionForEntityResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetDefaultActionForEntity** | The input data for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetDefaultActionForEntityResponse** | The result data for the **SetDefaultActionForEntity** WSDL operation. |

###### SetDefaultActionForEntity

The **SetDefaultActionForEntity** element specifies the input data for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultActionForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="entityStruct" nillable="true" type="q9:EntityStruct"/>
5. <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**entityStruct:** The [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to which a default [**Action**](#gt_ac1ff388-1041-4f02-ba53-98bcb8537372) is to be set. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Entity** MUST be the partition of the protocol client.

**actionName:** The name of the **Action** to be set as default **Action** to the specified **Entity**.

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

###### SetDefaultActionForEntityResponse

The **SetDefaultActionForEntityResponse** element specifies the result data for the **SetDefaultActionForEntity** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultActionForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** operation sets the [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) with the [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) specified by the **TypeDescriptorId** element of the specified **DefaultValueStruct** complex type for the [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct**.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetDefaultValuesForTypeDescriptor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the **Method** that contains the **Parameter** that contains the specified **TypeDescriptor**. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The specified **DefaultValue** is invalid. |
| [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) | The specified **TypeDescriptor** already contains the implementation-specific maximum number of **DefaultValues**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **TypeDescriptor** does not exist or the specified **MethodInstance** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage** | The request WSDL message for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage** | The response WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultValuesForTypeDescriptor** element.

###### BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetDefaultValuesForTypeDescriptorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetDefaultValuesForTypeDescriptor** | The input data for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetDefaultValuesForTypeDescriptorResponse** | The result data for the **SetDefaultValuesForTypeDescriptor** WSDL operation. |

###### SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** element specifies the input data for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultValuesForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="defaultValueStruct" nillable="true" type="q9:DefaultValueStruct"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**defaultValueStruct:** The [**DefaultValue**](#gt_6bb5f76b-62c3-4ae5-ba7a-37d97ff6d7fe) to be set for the specified [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this element MUST be the partition of the protocol.

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

###### SetDefaultValuesForTypeDescriptorResponse

The **SetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **SetDefaultValuesForTypeDescriptor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetDefaultValuesForTypeDescriptorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** operation sets the [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<113>](#Appendix_A_113" \o "Product behavior note 113) for the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetLobSystemDataByLobSystemId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage** response message, unless any faults occur.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified **LobSystem**. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified **LobSystem** does not exist. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage** | The request WSDL message for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage** | The response WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation. |

###### BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetLobSystemDataByLobSystemId** element.

###### BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetLobSystemDataByLobSystemIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetLobSystemDataByLobSystemId** | The input data for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetLobSystemDataByLobSystemIdResponse** | The result data for the **SetLobSystemDataByLobSystemId** WSDL operation. |

###### SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** element specifies the input data for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetLobSystemDataByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
5. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="proxyGenerationResult" nillable="true" type="tns2:ProxyGenerationResult"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**lobSystemId:** The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) of the [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

**proxyGenerationResult:** The [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656)[<114>](#Appendix_A_114" \o "Product behavior note 114) to be set in the specified **LobSystem**.

**partitionId:** The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of the protocol client.

###### SetLobSystemDataByLobSystemIdResponse

The **SetLobSystemDataByLobSystemIdResponse** element specifies the result data for the **SetLobSystemDataByLobSystemId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetLobSystemDataByLobSystemIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### TypeDescriptorCreate

The **TypeDescriptorCreate** operation creates a [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="TypeDescriptorCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5)error if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) containing the[**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) specified by **parameterStruct** element.

This operation raises the **ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)** error under the following conditions:

* The **TypeDescriptor** specified by the **rawValues** element and the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element are contained by different **Parameters**.
* The data type referenced by the **typeName** element of the specified **TypeDescriptor** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
* The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element is "NULL", and the **Parameter** has another [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010).
* The **TypeDescriptor** and the parent **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element have the **IsCollection** flag set.
* The **TypeDescriptor** is associated with a [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb), and the **FilterDescriptor** is not contained by the **Method** that contains the **Parameter** specified by the **parameterStruct** element.
* The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element has the **IsCollection** flag set and already contains another **TypeDescriptor**.
* The **TypeDescriptor** has its read-only flag set, and the **Direction** attribute of the **Parameter** is set to "In".

This operation raises the [**DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0)error if the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains another **TypeDescriptor** that has the same name.

This operation raises the [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b)error under the following conditions:

* The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains an implementation-specific maximum number of **TypeDescriptors**.
* The metadata store already contains an implementation-specific maximum number of **TypeDescriptors** associated with the **FilterDescriptor** referenced by the specified **TypeDescriptor**.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage** | The request WSDL message for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage** | The response WSDL message for the **TypeDescriptorCreate** WSDL operation. |

###### BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorCreate** element.

###### BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorCreateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **TypeDescriptorCreate** | The input data for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **TypeDescriptorCreateResponse** | The result data for the **TypeDescriptorCreate** WSDL operation. |

###### TypeDescriptorCreate

The **TypeDescriptorCreate** element specifies the input data for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q9:TypeDescriptorStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**rawValues:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) to create. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **TypeDescriptor** MUST be the partition of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** to create. The partition of this **TypeDescriptor** MUST be the partition of the protocol client. If the **TypeDescriptor** to be created is a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010), then the value of this element MUST be NULL.

**parameterStruct:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) containing the created **TypeDescriptor**. The partition of this **Parameter** MUST be the partition of the protocol client.

###### TypeDescriptorCreateResponse

The **TypeDescriptorCreateResponse** element specifies the result data for the **TypeDescriptorCreate** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorCreateResult" nillable="true" type="q9:TypeDescriptorStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**TypeDescriptorCreateResult:** The created [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **TypeDescriptor** MUST be the partition of the protocol client.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** operation merges the **Properties** and [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) contained by the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) in the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) into an existing **TypeDescriptor** in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **MetadataModel** MUST be specified as a well-formed external parsed entity, as specified in [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2, and MUST have as a root element the **TypeDescriptor** element, as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.3.34.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="TypeDescriptorMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to edit the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9). |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The "Model" value is specified in the **packageContents** element. |
| [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) | The specified **MetadataModel** contains one or more **TypeDescriptors** that already contain the implementation-specific maximum number of **Properties**, and the **packageContents** element has "Properties" set as its value. |
| [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) | The specified **MetadataModel** specifies one or more **TypeDescriptors** that already contain the implementation-specific maximum number of localized names, and the **packageContents** element has "LocalizedNames" as its value. |
| [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) | The specified Parameter could not be found and the specified parent **TypeDescriptor** is set to null. |
| [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a) | The **TypeDescriptor** specified in the **MetadataModel** does not exist in the specified **TypeDescriptor** or the specified **Parameter** if a **TypeDescriptor** is not specified, or the specified parent **TypeDescriptor** could not be found. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage** | The request WSDL message for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage** | The response WSDL message for the **TypeDescriptorMergeXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorMergeXml** element.

###### BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorMergeXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **TypeDescriptorMergeXml** | The input data for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **TypeDescriptorMergeXmlResponse** | The result data for the **TypeDescriptorMergeXml** WSDL operation. |

###### TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** element specifies the input data for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packgeContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
7. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
8. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that conforms to the Business Data Connectivity Model File Format as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.2.3.34.

**packgeContents:** Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server MUST use the following rules:

* If the "Properties" value is specified, the protocol server MUST merge the **Properties** for the corresponding **TypeDescriptors** for the specified [**Setting**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). During this merge, if a **Property** that has the same name and setting as the **Property** specified in the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) already exists for the specified **TypeDescriptor**, the protocol server MUST remove the existing **Property** and create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **TypeDescriptor**, the protocol server MUST create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.
* If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
* If the "LocalizedNames" value is specified, the protocol server MUST merge the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for the corresponding **TypeDescriptor** for the specified **Setting**. During this merge, if a localized name that has the same [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) and **Setting** as the localized name specified by the **MetadataModel** already exists for the specified **TypeDescriptor**, the protocol server MUST remove the existing localized name and create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **TypeDescriptor**, the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
* If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

**parameterStruct:** The [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that contains the TypeDescriptor that is updated. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Parameter** MUST be the partition or the protocol client.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** specified by the XML. The partition of this **TypeDescriptor**, if it is specified, MUST be the partition of the protocol client. This **TypeDescriptor** MUST be NULL if the **TypeDescriptor** specified by the XML is a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010).

**settingId:** The **Setting** with which to merge the **Properties** and localized names. If the value is NULL, the protocol server MUST use the default **Setting** when performing this operation.

**callerCultureLcid:** This value MUST be ignored by the protocol server.

###### TypeDescriptorMergeXmlResponse

The **TypeDescriptorMergeXmlResponse** element specifies the result data for the **TypeDescriptorMergeXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorMergeXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorMergeXmlResult" nillable="true" type="q9:TypeDescriptorStruct"/>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**TypeDescriptorMergeXmlResult:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) into which the **Properties** and [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423) were merged. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **TypeDescriptor** MUST be the partition of the protocol client.

**errors:** List of implementation-specific error messages that occurred while performing this operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### TypeDescriptorReadXml

The **TypeDescriptorReadXml** operation creates the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contained by the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee), along with their **Properties** and [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The **MetadataModel** MUST be specified as a well-formed external parsed entity, as specified in [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) section 4.3.2, and MUST have as a root element the **TypeDescriptor** element, as specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.43.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="TypeDescriptorReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5)error if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) containing the specified [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9).

This operation raises a [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) error if the "Model" value is not specified in the **packageContents** element.

This operation raises a [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) error under the following conditions:

* The data type referenced by a **TypeDescriptor** contained by the **MetadataModel** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
* The specified **TypeDescriptor** is not contained by the specified **Parameter**.

This operation raises the [**DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0)error if the specified **TypeDescriptor** already contains another **TypeDescriptor** with the same name as the **TypeDescriptor** that corresponds to the **MetadataModel**.

This operation raises the [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b)error under the following conditions:

* The specified **MetadataModel** contains a **TypeDescriptor** that contains more **TypeDescriptors** than the implementation-specific maximum number of **TypeDescriptors**.
* The specified **TypeDescriptor** contains the implementation-specific maximum number of **TypeDescriptors**.

This operation raises the [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1)error if the specified **Parameter** or the specified **TypeDescriptor** does not exist.

This operation raises the [**PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_f0fdcc5c1d374f96b8d75bb73c60e21a)error under the following conditions:

* The specified XML does not conform to the format specified in [MS-BDCMFFS].
* The **Method** containing the specified **Parameter** does not contain the **FilterDescriptor** referenced by the specified **MetadataModel**.
* The specified **MetadataModel** contains a **TypeDescriptor** that has the **ReadOnly** flag set, and the specified **Parameter** has the **Direction** attribute set to "In".
* The specified **TypeDescriptor** is NULL, and the specified **Parameter** already has a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010).
* The specified **TypeDescriptor** has the **IsCollection** flag set, and the **TypeDescriptor** that corresponds to the specified **MetadataModel** also has the **IsCollection** flag set.
* The specified **TypeDescriptor** has the **IsCollection** flag set and already contains a **TypeDescriptor**.
* The **MetadataModel** contains a **TypeDescriptor** that has the **IsCollection** flag set and contains another **TypeDescriptor** that has the **IsCollection** flag set.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage** | The request WSDL message for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage** | The response WSDL message for the **TypeDescriptorReadXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorReadXml** element.

###### BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **TypeDescriptorReadXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **TypeDescriptorReadXml** | The input data for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **TypeDescriptorReadXmlResponse** | The result data for the **TypeDescriptorReadXml** WSDL operation. |

###### TypeDescriptorReadXml

The **TypeDescriptorReadXml** element specifies the input data for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
7. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
8. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**xml:** The [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) representation of the [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee) that conforms to the Business Data Connectivity Model file format specified in [[MS-BDCMFFS]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a).

**packageContents:** Specifies the part of the **MetadataModel** to be created. The protocol server MUST use the following rules:

* If the "Properties" value is specified, the protocol server MUST create the specified **Properties** for the corresponding [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).
* 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**](#gt_86921c09-6026-422c-9384-3c87f6d34423) 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**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) in which to create the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contained by the **MetadataModel**. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Parameter** MUST be the partition of the protocol client.

**parentTypeDescriptorStruct:** The **TypeDescriptor** in which to create the **TypeDescriptors** contained by the **MetadataModel**. The value of this element MUST be NULL if the **MetadataModel** contains the [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) of the **Parameter**. The partition of this **TypeDescriptor** MUST be the partition of the protocol client.

**callerCultureLcid:** This value MUST be ignored by the protocol server.

###### TypeDescriptorReadXmlResponse

The **TypeDescriptorReadXmlResponse** element specifies the result data for the **TypeDescriptorReadXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="TypeDescriptorReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorReadXmlResult" nillable="true" type="q9:TypeDescriptorStruct"/>
5. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**TypeDescriptorReadXmlResult:** The [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) from the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd) that is corresponding to the specified [**MetadataModel**](#gt_830699e5-5e2c-483c-9e78-e11ef728a1ee). The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **TypeDescriptor** MUST be the partition of the protocol client.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Update

The **Update** operation updates a [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Update" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService\_Update\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse" message="tns:BusinessDataCatalogSharedService\_Update\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_Update\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Update\_OutputMessage** response message, unless any faults occur.

If any one of the following conditions is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure**](#Section_6d5fb12e20c5465194404eb32b85edb5)) error if the [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client is operating is not authorized to modify the specified **MetadataObject**.

This operation raises the [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) error under either of the following conditions:

* The specified **MetadataObject** name is "NULL" or empty.
* The length of the specified **MetadataObject** name exceeds 255 characters.

This operation raises the [**ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_4e91414dabba4cdaa4d60439558bd6d9) error if the specified **MetadataObject** has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the **MetadataObject**. For example, this error can be raised when one context reads the **MetadataObject**, another context updates the same **MetadataObject**, and then the original context tries to update the same **MetadataObject**.

This operation raises the [**DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_6b084d33f77d4a0eb75bd158786cf4b0) error if the parent **MetadataObject** contains another **MetadataObject** with the same **MetadataObject** name.

This operation raises the [**ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_cb57c9eef6034081ad62b529308b212b) error if the parent of the specified **MetadataObject** already contains the implementation-specific maximum number of **MetadataObjects** of the same type as the specified **MetadataObject**.

This operation raises the [**InvalidMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_52890afb981b43e4aa71ad178fc176c5) error under the following conditions:

* The specified **MetadataObject** is a [**root TypeDescriptor**](#gt_a4cab4a3-abbb-4d7a-aeb2-efebea569010) and is being updated to be part of a [**Parameter**](#gt_c9e0eacb-ce6b-4158-b8af-f2eae85f36f9) that already has a root **TypeDescriptor**.
* The specified **MetadataObject** is a **TypeDescriptor** that has its **Parameter** being changed to the specified **Parameter**, and the specified **Parameter** already has a root **TypeDescriptor**.[<115>](#Appendix_A_115" \o "Product behavior note 115)
* The specified **MetadataObject** is a **TypeDescriptor**, and the **IsCollection** flag cannot be set on a **TypeDescriptor** if its containing **TypeDescriptor** also has the **IsCollection** flag set.
* The specified **MetadataObject** is a **TypeDescriptor**, and a **TypeDescriptor** with the **IsCollection** flag set can only contain one **TypeDescriptor**.
* The specified **MetadataObject** is a **TypeDescriptor**, and the [**FilterDescriptor**](#gt_cbc7ea30-c17a-4728-9cd5-7fc7fdbf2cbb) associated with the specified **TypeDescriptor** is not defined for the [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219) that contains the **Parameter** containing the specified **TypeDescriptor**.
* The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the containing **TypeDescriptor** is different from the **Parameter** containing the specified **TypeDescriptor**.
* The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the specified **TypeDescriptor** has a **TypeDescriptor** hierarchy deeper than an implementation-specific, maximum-allowed depth.
* The specified **MetadataObject** is a **TypeDescriptor**, and the **Parameter** containing the specified **TypeDescriptor** has the **Direction** attribute set to "In", but, the specified **TypeDescriptor** has "Read-Only" for the **TypeDescriptorFlags** attribute.
* The operation cannot be performed because the specified **MetadataObject** is the **FilterDescriptor**, and one of the following conditions exists:
  + The **Method** associated with the specified **FilterDescriptor** already contains a **FilterDescriptor** of type [**TimeStampFilter**](#gt_40c8d5c3-79d3-4e67-91a7-9593ede2e21e), and the specified **FilterDescriptor** is being changed to a **FilterDescriptor** of type **TimeStampFilter**.
  + The **Method** that contains the specified **FilterDescriptor** also contains a **MethodInstance** of type [**ChangedIdEnumerator**](#gt_5282c6de-9077-4a7b-875b-502405b5f1c4) or [**DeletedIdEnumerator**](#gt_b8fc1b3e-e0dd-4167-84b6-f6d6e342ffa4), and the type of the **FilterDescriptor** is being changed from **TimeStampFilter** to another type.

This operation raises the [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) error under the following conditions:

* The operation cannot be performed because the specified **MetadataObject** is an **Association** or a **MethodInstance** contained by an active **Entity**.[<116>](#Appendix_A_116" \o "Product behavior note 116)

The operation cannot be performed because the specified **MetadataObject** is an **Entity** that has its name or namespace being updated, and another **Entity** with the specified name and namespace is currently being referenced by other **MetadataObjects**.This operation raises the **MetadataException** (from namespace Microsoft.SharePoint.BusinessData) error under the following conditions:

* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the specified type for the **MethodInstance** in the request message requires a **Parameter** with the **Direction** attribute set to "In" or "InOut" to be present on the **Method** containing the specified **Association** or **MethodInstance**. However, the specified type for the existing **MethodInstance** on the protocol server does not require such a **Parameter**.
* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **Parameter** of the specified **ReturnTypeDescriptor** is not contained by the same **Method** as the specified **Association** or **MethodInstance**.
* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **Parameter** containing the specified **ReturnTypeDescriptor** has the **Direction** attribute set to "In".
* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required for **MethodInstance** if the type of **MethodInstance** is one of the following values. However, it is passed in as NULL or zero.
* AccessChecker
* AssociationNavigator
* ChangedIdEnumerator
* DeletedIdEnumerator
* Finder
* IdEnumerator
* Scalar
* SpecificFinder
* StreamAccessor
* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to not contain any **TypeDescriptors** for the specified type of the **MethodInstance**.
* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to have the **IsCollection** flag set for the specified type of the **MethodInstance**.
* The specified **MetadataObject** is an **Association** or a **MethodInstance**, and the **ReturnTypeDescriptor** is required to have the **IsCollection** flag not set for the specified type of the **MethodInstance**. This is the case if the specified type of **MethodInstance** is one of the following values:
* ChangedIdEnumerator
* DeletedIdEnumerator
* Finder
* IdEnumerator
* The specified **MetadataObject** is a **Parameter**, and the specified **Parameter** cannot have the **Direction** attribute set to "In" because the specified **Parameter** contains a **ReturnTypeDescriptor** of a **MethodInstance**.
* The specified **MetadataObject** is a **Parameter**, and the **Method** that contains the specified **Parameter** already contains a **Parameter** with the **Direction** attribute set to "Return".
* The specified **MetadataObject** is a **Parameter**, and the specified **Parameter** cannot have the **Direction** attribute set to "In" because one of the **TypeDescriptors** contained by the specified **Parameter** has the "Read-Only" value set in the **TypeDescriptorFlags** attribute.
* The specified **MetadataObject** is an **Entity**, and the specified CacheUsage or Version is invalid.
* The specified **MetadataObject** is a **Parameter**, and the specified direction is invalid.
* The specified **MetadataObject** is a **MethodInstance**, and the specified type is invalid.
* The specified **MetadataObject** is a **TypeDescriptor**, and the specified flags are invalid.
* The specified **MetadataObject** is a **MethodInstance** and the **TypeDescriptor** that contains the **ReturnTypeDescriptor** is required not to contain any other **TypeDescriptors** for **MethodInstance** of **StreamAccessor** type, and the type for the **LobSystem** containing the **Entity** containing **MethodInstance** of **StreamAccessor** type is **DataBase**.
* The specified **MetadataObject** is a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52), and one of the following conditions is true:
  + The type of the specified **MethodInstance** is [**IdEnumerator**](#gt_3c98dc35-5ff4-4723-947a-85da52c22533), and the [**DataClass**](#gt_6b4d30ac-3252-4b34-ae4b-ab304d55b69a) that contains the specified **MethodInstance** already contains another **MethodInstance** of type **IdEnumerator**.
  + The type of the specified **MethodInstance** is [**AccessChecker**](#gt_d6c825b0-812e-4a14-ae8e-d021f3537740), and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **AccessChecker**.
  + The type of the specified **MethodInstance** is [**Deleter**](#gt_d2fd6788-1494-4545-a132-8fe3978e63a9), and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **Deleter**.
  + The type of the specified **MethodInstance** is ChangedIdEnumerator, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **ChangedIdEnumerator**.
  + The type of the specified **MethodInstance** is DeletedIdEnumerator, and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **DeletedIdEnumerator**.
  + The type of the specified **MethodInstance** is [**BulkIdEnumerator**](#gt_84a32944-5daa-4421-89f8-66f0baaa1066), and the **DataClass** that contains the specified **MethodInstance** already contains another **MethodInstance** of type **BulkIdEnumerator**.[<117>](#Appendix_A_117" \o "Product behavior note 117)

This operation raises the [**MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)**](#Section_101975b92f674db99107f1996954ced1) error if the specified **MetadataObject** does not exist.

Upon successful completion of this operation, the protocol server MUST increment the object version of any **MetadataObjects** that it updated. If the incremented object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated **MetadataObjects** to zero.

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

| MetadataObject | Action |
| --- | --- |
| **Parameter** | If the **ordinalNumber** attribute of the specified **Parameter** is the same as the **ordinalNumber** attribute of another **Parameter** contained by the **Method** containing the specified **Parameter**, then the **ordinalNumber** attribute of **Parameters** contained by that **Method** that have the **ordinalNumber** attribute greater than or equal to the **ordinalNumber** attribute of the specified **Parameter** MUST be incremented.  After the operation completes, all **Parameters** contained by the **Method** containing the specified **Parameter** MUST have **ordinalNumber** attributes in the range from zero to *n-1*, where *n* is the number of **Parameters** contained by that **Method**. **Parameters** not contained by the **Method** that contains the specified **Parameter** MUST NOT have their **ordinalNumber** attributes altered.[<118>](#Appendix_A_118" \o "Product behavior note 118) |
| **MethodInstance** | When the **isDefault** attribute of the specified **MethodInstance** is set to "true", the protocol server MUST set the **isDefault** attribute of all other **MethodInstances** that have the same value for the **MethodInstanceType** attribute in the containing **DataClass** to "false". When the **isDefault** attribute of the specified **MethodInstance** is set to "false" (and it was previously set to "true"), the protocol server SHOULD[<119>](#Appendix_A_119" \o "Product behavior note 119) set the **IsDefault** attribute of a **MethodInstance** with the same value for **MethodInstanceType** in the containing **DataClass** to "true". The protocol server MUST determine the **MethodInstance** to alter, based on an implementation-specific algorithm. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_Update\_InputMessage** | The request WSDL message for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_Update\_OutputMessage** | The response WSDL message for the **Update** WSDL operation. |

###### BusinessDataCatalogSharedService\_Update\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Update** element.

###### BusinessDataCatalogSharedService\_Update\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UpdateResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Update** | The input data for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **UpdateResponse** | The result data for the **Update** WSDL operation. |

###### Update

The **Update** element specifies the input data for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Update" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**metadataObjectStruct:** The [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to update. The [**MetadataObjectId**](#gt_0d75e076-dc2d-4256-ae9e-3644f9b4230b) and the [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) 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**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

###### UpdateResponse

The **UpdateResponse** element specifies the result data for the **Update** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="UpdateResult" nillable="true" type="q9:MetadataObjectStruct"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**UpdateResult:** The updated [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### WriteSlicedXml

The **WriteSlicedXml** operation retrieves an implementation-specific string corresponding to the specified [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79),[<120>](#Appendix_A_120" \o "Product behavior note 120) along with its included [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c). This operation can also optionally retrieve the [**localized names**](#gt_86921c09-6026-422c-9384-3c87f6d34423), **Properties**, and [**ACEs**](#gt_b581857f-39aa-4979-876b-daba67a40f15) in all [**Settings**](#gt_d49074fc-26de-4e43-8d76-4ab945694d78). The protocol client uses this operation to back up a **Model** or an **LobSystem** in a specified [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75). The [**ReadSlicedXml**](#Section_525c8e33b19248849c7edf844154075e) operation, as specified in section 3.1.4.100, can be used to restore the **Model** or **LobSystem** by specifying the string returned from this operation.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="WriteSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_AccessDeniedExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
5. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
6. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentNullExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
7. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
8. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_BdcExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
9. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InvalidOperationExceptionFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
10. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_MetadataExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
11. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
12. </wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage** response message, unless any faults occur.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) containing the corresponding error complex type, serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

| Error complex type | Condition |
| --- | --- |
| [**AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)**](#Section_6d5fb12e20c5465194404eb32b85edb5) | The [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) in whose context the protocol client operates is not authorized to modify the specified **Model** or **LobSystem** and the **CameThroughRemoteAdminService** header specified in section [3.1](#Section_a8735471690a448a997513fd76b62883) is present in the SOAP request. |
| [**ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_ea4be32080bc4e6d9e205570c7a9fcf3) | The "InlineProxies" value requires the "Model" value to also be specified for the **packageContents** element. |

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage** | The request WSDL message for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage** | The response WSDL message for the **WriteSlicedXml** WSDL operation. |

###### BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **WriteSlicedXml** element.

###### BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **WriteSlicedXmlResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **WriteSlicedXml** | The input data for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **WriteSlicedXmlResponse** | The result data for the **WriteSlicedXml** WSDL operation. |

###### WriteSlicedXml

The **WriteSlicedXml** element specifies the input data for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="WriteSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
5. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**metadataObjectStruct:** The [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) or [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) to be retrieved. The [**partition**](#gt_2f24f458-7d39-47a2-93f7-de433ea85c75) of this **Model** or **LobSystem** MUST be the partition of the protocol client.

**packageContents:** This value of this element SHOULD[<121>](#Appendix_A_121" \o "Product behavior note 121) be set to "All".

###### WriteSlicedXmlResponse

The **WriteSlicedXmlResponse** element specifies the result data for the **WriteSlicedXml** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="WriteSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**WriteSlicedXmlResult:** An implementation-specific string representing the specified [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) or [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view of how the protocol client operates with the protocol server when running such an operation.

The examples in this section manipulate [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) and [**Entities**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb). However, the concepts illustrated apply equally to other [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

## Creating an LobSystem

This example illustrates how a user can create an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The following actions are carried out:

1. The user requests the protocol client to create an **LobSystem** named ExampleCRM.
2. The protocol client uses the **MetadataObjectCreate** operation as shown in the following code example.
3. // Assumes a service reference to the Business Data Connectivity shared service has been created.
4. // Instantiates the Business Data Connectivity SharedService client.
5. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
6. // Instantiates the AdministrationMetadataCatalogStruct complex type.
7. BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new BDCServiceReference.AdministrationMetadataCatalogStruct();
8. myBDC.id = 1;
9. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
10. myBDC.partitionId = myPartition;
11. // Instantiates the LobSystem object.
12. BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
13. // Sets up the LobSystem object.
14. myLob.partitionId = myPartition;
15. myLob.name = "ExampleCRM";
16. myLob.systemType = BDCServiceReference.SystemType.Database;
17. // Uses the MetadataObjectCreate operation to create the LobSystem.
18. myClient.MetadataObjectCreate(myLob, myBDC);

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate</a:Action>
4. <a:MessageID>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1"> http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <rawValues i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>0</b:id>
14. <b:isCached>false</b:isCached>
15. <b:name>ExampleCRM</b:name>
16. <b:objectVersion>0</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:systemType>Database</b:systemType>
19. </rawValues>
20. <parentStruct i:type="b:AdministrationMetadataCatalogStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
21. <b:id>1</b:id><b:isCached>false</b:isCached><b:name i:nil="true"/><b:objectVersion>0</b:objectVersion><b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
22. </parentStruct>
23. </MetadataObjectCreate>
24. </s:Body>
25. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse</a:Action>
4. <a:RelatesTo>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <MetadataObjectCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
8. <MetadataObjectCreateResult i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <b:id>105</b:id>
10. <b:isCached>false</b:isCached>
11. <b:name>ExampleCRM</b:name>
12. <b:objectVersion>0</b:objectVersion>
13. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
14. <b:systemType>Database</b:systemType>
15. </MetadataObjectCreateResult>
16. </MetadataObjectCreateResponse>
17. </s:Body>
18. </s:Envelope>

## Setting the Security Information of a MetadataObject

This example illustrates how a user can set security information for an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

This example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to set ACEs on the **LobSystem** named ExampleCRM.
2. The protocol client uses the **SetAccessControlEntries** operation as shown in the following code.
3. //This method shows how to set the ACL entries on an entity
4. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
5. BDCServiceReference.LobSystemStruct myLob;
6. BDCServiceReference.AccessControlEntryStruct[] myACLs;
7. BDCServiceReference.AccessControlEntryStruct myACL;
9. //Instantiate the BDCSharedServiceClient
10. myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
11. //First get the metadaobject with the name
12. myLob = new BDCServiceReference.LobSystemStruct();
13. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
14. myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
15. //setup the ACL object
16. myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
17. myACL.rights = 23;
18. myACL.principalName = "Domain\\UserName";
19. myACL.principalDisplayName = "UserName";
20. myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] { myACL };
21. // set the ACL on the metadatobject by calling the SetAccessControlEntries method
22. myClient.SetAccessControlEntries(myLob, myACLs, null);

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries</a:Action>
4. <a:MessageID>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1"> http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <SetAccessControlEntries xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <metadataObjectStruct i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>105</b:id>
14. <b:isCached>false</b:isCached>
15. <b:name>ExampleCRM</b:name>
16. <b:objectVersion>0</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:systemType>Database</b:systemType>
19. </metadataObjectStruct>
20. <accessControlEntries xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
21. <b:AccessControlEntryStruct>
22. <b:principalBinaryForm i:nil="true"/>
23. <b:principalDisplayName>UserName</b:principalDisplayName>
24. <b:principalName>Domain\UserName</b:principalName>
25. <b:rights>23</b:rights>
26. </b:AccessControlEntryStruct>
27. </accessControlEntries>
28. <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
29. </SetAccessControlEntries>
30. </s:Body>
31. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse</a:Action>
4. <a:RelatesTo>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <SetAccessControlEntriesResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
8. </s:Body>
9. </s:Envelope>

## Reading the Security Information of a MetadataObject

This example illustrates how a user can read the ACEs of an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

This example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** named ExampleCRM.
2. The protocol client uses the **GetAccessControlEntries** operation as shown in the following code.
3. //This method shows how to set the ACL entries on an entity.
4. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
5. BDCServiceReference.LobSystemStruct myLob;
6. BDCServiceReference.AccessControlEntryStruct[] myACLs;
8. //Instantiates the BDCSharedServiceClient.
9. myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
10. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
11. //Obtain the metadaobject with the name.
12. myLob = new BDCServiceReference.LobSystemStruct();
13. myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
15. //Read the ACL entries on the entity
16. myACLs = myClient.GetAccessControlEntries(myLob, null, true);

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries</a:Action>
4. <a:MessageID>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <GetAccessControlEntries xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <metadataObjectStruct i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>105</b:id>
14. <b:isCached>false</b:isCached>
15. <b:name>ExampleCRM</b:name>
16. <b:objectVersion>0</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:systemType>Database</b:systemType>
19. </metadataObjectStruct>
20. <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
21. <fallback>true</fallback>
22. </GetAccessControlEntries>
23. </s:Body>
24. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse</a:Action>
4. <a:RelatesTo>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <GetAccessControlEntriesResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
8. <GetAccessControlEntriesResult xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <b:AccessControlEntryStruct>
10. <b:principalBinaryForm i:nil="true"/>
11. <b:principalDisplayName>UserName</b:principalDisplayName>
12. <b:principalName>Domain\UserName</b:principalName>
13. <b:rights>23</b:rights>
14. </b:AccessControlEntryStruct>
15. </GetAccessControlEntriesResult>
16. </GetAccessControlEntriesResponse>
17. </s:Body>
18. </s:Envelope>

## Creating an Entity

This example illustrates how a user can create an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The example assumes that:

* An [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66) that contains the **Entity** is already created in the metadata store.
* The **LobSystem** is named ExampleCRM.
* The **PartitionId** used when creating the **LobSystem** is 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
* The **LobSystem** has an [**ACE**](#gt_b581857f-39aa-4979-876b-daba67a40f15) associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** named Customer in the namespace example.com with an estimated instance count of 100.
2. The protocol client uses the **EntityCreate** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
5. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
6. //Obtain the LOB system before creating the entity.
7. BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
8. myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
9. //Instantiate the entity object.
10. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
11. //Set properties.
12. myEntity.name = "Customer";
13. myEntity.@namespace = "example.com";
14. myEntity.isCached = true;
15. myEntity.objectVersion = 0;
16. System.Version ver = new Version(1,0,0,0);
17. myEntity.version = ver;
18. myEntity.partitionId = myPartition;
19. myEntity.estimatedInstanceCount = 100;
20. //Create the entity.
21. myClient.EntityCreate(myEntity,myLob,null);
22. The protocol server creates the **Entity** in the metadata store.
23. The protocol server copies the ACE of the **LobSystem** and associates it with the newly created **Entity**.

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate</a:Action>
4. <a:MessageID>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <rawValues xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>0</b:id>
14. <b:isCached>true</b:isCached>
15. <b:name>Customer</b:name>
16. <b:objectVersion>0</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:active>false</b:active>
19. <b:lobSystemId>0</b:lobSystemId>
20. <b:modelId>0</b:modelId>
21. <b:namespace>example.com</b:namespace>
22. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
23. <c:\_Build>0</c:\_Build>
24. <c:\_Major>1</c:\_Major>
25. <c:\_Minor>0</c:\_Minor>
26. <c:\_Revision>0</c:\_Revision>
27. </b:version>
28. <b:cacheUsage>Default</b:cacheUsage>
29. <b:description i:nil="true"/>
30. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
31. </rawValues>
32. <lobSystemStruct xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
33. <b:id>105</b:id>
34. <b:isCached>false</b:isCached>
35. <b:name>ExampleCRM</b:name>
36. <b:objectVersion>0</b:objectVersion>
37. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
38. <b:systemType>Database</b:systemType>
39. </lobSystemStruct>
40. <modelStruct i:nil="true" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
41. </EntityCreate>
42. </s:Body>
43. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse</a:Action>
4. <a:RelatesTo>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
8. <EntityCreateResult xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <b:id>106</b:id>
10. <b:isCached>true</b:isCached>
11. <b:name>Customer</b:name>
12. <b:objectVersion>0</b:objectVersion>
13. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
14. <b:active>false</b:active>
15. <b:lobSystemId>105</b:lobSystemId>
16. <b:modelId>0</b:modelId>
17. <b:namespace>example.com</b:namespace>
18. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
19. <c:\_Build>0</c:\_Build>
20. <c:\_Major>1</c:\_Major>
21. <c:\_Minor>0</c:\_Minor>
22. <c:\_Revision>0</c:\_Revision>
23. </b:version>
24. <b:cacheUsage>Default</b:cacheUsage>
25. <b:description i:nil="true"/>
26. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
27. </EntityCreateResult>
28. </EntityCreateResponse>
29. </s:Body>
30. </s:Envelope>

## Activating an Entity

This example illustrates how a user can set a version of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) to be active in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

This example assumes that:

* The preceding examples have successfully finished.
* After successfully creating the Customer **Entity**, the user has added some other [**MetadataObjects**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to it, such as an [**Identifier**](#gt_48fa969a-afee-46d3-8d81-f8e5a15f17c0), a [**Method**](#gt_73fe0b87-f64b-423f-b42c-9d0d00b01219), and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** named Customer in the namespace example.com with the **PartitionID** 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
2. The protocol client uses the **Activate** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
5. System.Version ver = new Version(1,0,0,0);
6. myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer", ver, partition);
7. BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);
8. The protocol server checks whether the **Entity** exists in the metadata store.
9. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate</a:Action>
4. <a:MessageID>urn:uuid:351c762f-9a6f-4bc9-a208-9049c347c23d</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <entityStruct xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>106</b:id>
14. <b:isCached>true</b:isCached>
15. <b:name>Customer</b:name>
16. <b:objectVersion>0</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:active>true</b:active>
19. <b:lobSystemId>105</b:lobSystemId>
20. <b:modelId>0</b:modelId>
21. <b:namespace>example.com</b:namespace>
22. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
23. <c:\_Build>0</c:\_Build>
24. <c:\_Major>1</c:\_Major>
25. <c:\_Minor>0</c:\_Minor>
26. <c:\_Revision>0</c:\_Revision>
27. </b:version>
28. <b:cacheUsage>Default</b:cacheUsage>
29. <b:description i:nil="true"/>
30. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
31. </entityStruct>
32. </Activate>
33. </s:Body>
34. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse</a:Action>
4. <a:RelatesTo>urn:uuid:d15e58ca-2cb9-4528-86f3-728a00f6c643</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
8. <ActivateResult xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <b:id>106</b:id>
10. <b:isCached>true</b:isCached>
11. <b:name>Customer</b:name>
12. <b:objectVersion>1</b:objectVersion>
13. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
14. <b:active>true</b:active>
15. <b:lobSystemId>105</b:lobSystemId>
16. <b:modelId>0</b:modelId>
17. <b:namespace>example.com</b:namespace>
18. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
19. <c:\_Build>0</c:\_Build>
20. <c:\_Major>1</c:\_Major>
21. <c:\_Minor>0</c:\_Minor>
22. <c:\_Revision>0</c:\_Revision>
23. </b:version>
24. <b:cacheUsage>Default</b:cacheUsage>
25. <b:description i:nil="true"/>
26. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
27. </ActivateResult>
28. </ActivateResponse>
29. </s:Body>
30. </s:Envelope>

## Reading an Entity

This example shows how a user can read an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** named Customer in the namespace example.com from the metadata store.
2. The protocol client uses the **GetEntityWithNameAndNamespace** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
5. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
6. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
7. The protocol server checks whether the **Entity** exists in the metadata store.
8. If it exists, the protocol server retrieves the attributes of the stored **Entity**.
9. The protocol server returns an **Entity** object to the protocol client.

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace</a:Action>
4. <a:MessageID>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <GetEntityWithNameAndNamespace xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <namespace>example.com</namespace>
13. <name>Customer</name>
14. <partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</partitionId>
15. </GetEntityWithNameAndNamespace>
16. </s:Body>
17. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse</a:Action>
4. <a:RelatesTo>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <GetEntityWithNameAndNamespaceResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
8. <GetEntityWithNameAndNamespaceResult xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <b:id>106</b:id>
10. <b:isCached>true</b:isCached>
11. <b:name>Customer</b:name>
12. <b:objectVersion>1</b:objectVersion>
13. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
14. <b:active>true</b:active>
15. <b:lobSystemId>105</b:lobSystemId>
16. <b:modelId>0</b:modelId>
17. <b:namespace>example.com</b:namespace>
18. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
19. <c:\_Build>0</c:\_Build>
20. <c:\_Major>1</c:\_Major>
21. <c:\_Minor>0</c:\_Minor>
22. <c:\_Revision>0</c:\_Revision>
23. </b:version>
24. <b:cacheUsage>Default</b:cacheUsage>
25. <b:description i:nil="true"/>
26. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
27. </GetEntityWithNameAndNamespaceResult>
28. </GetEntityWithNameAndNamespaceResponse>
29. </s:Body>
30. </s:Envelope>

## Creating Properties for MetadataObjects

This example shows how a user can create **Properties** for an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The concepts can be applied to any other [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c).

The example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to create a **Property** for the **Entity** named Customer in the namespace example.com.
2. To add a custom **Property** named CustomerAlternateName, the protocol client uses the **SaveProperty** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
5. BDCServiceReference.PropertyStruct myProperty = new BDCServiceReference.PropertyStruct();
6. System.Version ver = new Version(1,0,0,0);
7. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
8. //Get the entity object using the name and namespace
9. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
10. //Setup the Property object
11. myProperty.name = "CustomerAlternateName";
12. myProperty.typeName = "System.String";
13. myProperty.settingId = null;
14. //Add the custom propety to the entity object
15. myClient.SaveProperty(myEntity, myProperty);

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty</a:Action>
4. <a:MessageID>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <metadataObjectStruct i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>106</b:id>
14. <b:isCached>true</b:isCached>
15. <b:name>Customer</b:name>
16. <b:objectVersion>1</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:active>true</b:active>
19. <b:lobSystemId>105</b:lobSystemId>
20. <b:modelId>0</b:modelId>
21. <b:namespace>example.com</b:namespace>
22. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
23. <c:\_Build>0</c:\_Build>
24. <c:\_Major>1</c:\_Major>
25. <c:\_Minor>0</c:\_Minor>
26. <c:\_Revision>0</c:\_Revision>
27. </b:version>
28. <b:cacheUsage>Default</b:cacheUsage>
29. <b:description i:nil="true"/>
30. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
31. </metadataObjectStruct>
32. <propertyStruct xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
33. <b:needsTypeReflectionResolution>false</b:needsTypeReflectionResolution>
34. <b:wcfMarshallableValue i:nil="true"/>
35. <b:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
36. <b:wcfMarshallableValueTypeName i:nil="true"/>
37. <b:metadataObjectId>0</b:metadataObjectId>
38. <b:name>CustomerAlternateName</b:name>
39. <b:settingId i:nil="true"/>
40. <b:typeName>System.String</b:typeName>
41. </propertyStruct>
42. </SaveProperty>
43. </s:Body>
44. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse</a:Action>
4. <a:RelatesTo>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
8. </s:Body>
9. </s:Envelope>

## Adding Localized Names for MetadataObjects

This example shows how a user can add a [**localized name**](#gt_86921c09-6026-422c-9384-3c87f6d34423) for an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd). The concepts can be applied to any other **MetadataObject**.

The example assumes that the preceding examples have successfully finished and that the user wants to create the localized name for [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) 2058.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** named Customer in the namespace example.com.
2. The protocol client uses the **SaveLocalizedName** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
5. System.Version ver = new Version(1,0,0,0);
6. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
7. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
9. myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
10. The protocol server checks whether an **Entity** named Customer in the namespace example.com exists in the metadata store.
11. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName</a:Action>
4. <a:MessageID>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <metadataObjectStruct i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>106</b:id>
14. <b:isCached>true</b:isCached>
15. <b:name>Customer</b:name>
16. <b:objectVersion>1</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:active>true</b:active>
19. <b:lobSystemId>105</b:lobSystemId>
20. <b:modelId>0</b:modelId>
21. <b:namespace>example.com</b:namespace>
22. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
23. <c:\_Build>0</c:\_Build>
24. <c:\_Major>1</c:\_Major>
25. <c:\_Minor>0</c:\_Minor>
26. <c:\_Revision>0</c:\_Revision>
27. </b:version>
28. <b:cacheUsage>Default</b:cacheUsage>
29. <b:description i:nil="true"/>
30. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
31. </metadataObjectStruct>
32. <lcid>2058</lcid>
33. <name>Cliente</name>
34. <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
35. </SaveLocalizedName>
36. </s:Body>
37. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse</a:Action>
4. <a:RelatesTo>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <SaveLocalizedNameResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
8. </s:Body>
9. </s:Envelope>

## Updating an Entity

This example illustrates how a user can update an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** named Customer in the namespace example.com and changes its name from Customer to Buyer.
2. The protocol client uses the **Update** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
5. System.Version ver = new Version(1,1,0,0);
6. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
7. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer", myPartition);
9. // Set the name property to "Buyer"
10. myEntity.name = "Buyer";
11. // Call update method.
12. myClient.Update(myEntity);
13. The protocol server checks whether the **Entity** exists in the metadata store.
14. If it exists, the protocol server updates the name attributes of the **Entity** with the supplied value.

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update</a:Action>
4. <a:MessageID>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <metadataObjectStruct i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>106</b:id>
14. <b:isCached>true</b:isCached>
15. <b:name>Buyer</b:name>
16. <b:objectVersion>2</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:active>true</b:active>
19. <b:lobSystemId>105</b:lobSystemId>
20. <b:modelId>0</b:modelId>
21. <b:namespace>example.com</b:namespace>
22. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
23. <c:\_Build>0</c:\_Build>
24. <c:\_Major>1</c:\_Major>
25. <c:\_Minor>0</c:\_Minor>
26. <c:\_Revision>0</c:\_Revision>
27. </b:version>
28. <b:cacheUsage>Default</b:cacheUsage>
29. <b:description i:nil="true"/>
30. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
31. </metadataObjectStruct>
32. </Update>
33. </s:Body>
34. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse</a:Action>
4. <a:RelatesTo>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
8. <UpdateResult i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <b:id>106</b:id>
10. <b:isCached>true</b:isCached>
11. <b:name>Buyer</b:name>
12. <b:objectVersion>3</b:objectVersion>
13. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
14. <b:active>true</b:active>
15. <b:lobSystemId>105</b:lobSystemId>
16. <b:modelId>0</b:modelId>
17. <b:namespace>example.com</b:namespace>
18. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
19. <c:\_Build>0</c:\_Build>
20. <c:\_Major>1</c:\_Major>
21. <c:\_Minor>0</c:\_Minor>
22. <c:\_Revision>0</c:\_Revision>
23. </b:version>
24. <b:cacheUsage>Default</b:cacheUsage>
25. <b:description i:nil="true"/>
26. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
27. </UpdateResult>
28. </UpdateResponse>
29. </s:Body>
30. </s:Envelope>

## Deleting an Entity

This example illustrates how a user can delete an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in the [**metadata store**](#gt_8ac6b24b-d936-4a0e-84be-a8c05d399bbd).

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** named Buyer in the namespace example.com.
2. The protocol client uses the **Delete** operation as shown in the following code example.
3. BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
4. BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
5. System.Version ver = new Version(1, 1);
6. Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
7. myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer", myPartition);
8. myClient.Delete(myEntity);
9. The protocol server checks whether the **Entity** exists in the metadata store.
10. If it exists, the protocol server deletes the **Entity** from the metadata store.

Request body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete</a:Action>
4. <a:MessageID>urn:uuid:f1ee589a-df6b-48d1-83e4-9b28b2282414</a:MessageID>
5. <a:ReplyTo>
6. <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
7. </a:ReplyTo>
8. <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
9. </s:Header>
10. <s:Body>
11. <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
12. <metadataObjectStruct i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
13. <b:id>106</b:id>
14. <b:isCached>true</b:isCached>
15. <b:name>Buyer</b:name>
16. <b:objectVersion>3</b:objectVersion>
17. <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
18. <b:active>true</b:active>
19. <b:lobSystemId>105</b:lobSystemId>
20. <b:modelId>0</b:modelId>
21. <b:namespace>example.com</b:namespace>
22. <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
23. <c:\_Build>0</c:\_Build>
24. <c:\_Major>1</c:\_Major>
25. <c:\_Minor>0</c:\_Minor>
26. <c:\_Revision>0</c:\_Revision>
27. </b:version>
28. <b:cacheUsage>Default</b:cacheUsage>
29. <b:description i:nil="true"/>
30. <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
31. </metadataObjectStruct>
32. </Delete>
33. </s:Body>
34. </s:Envelope>

Response body:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse</a:Action>
4. <a:RelatesTo>urn:uuid:f1ee589a-df6b-48d1-83e4-9b28b2282414</a:RelatesTo>
5. </s:Header>
6. <s:Body>
7. <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
8. </s:Body>
9. </s:Envelope>

# Security

## Security Considerations for Implementers

None.

## Index of Security Parameters

# Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

1. <?xml version="1.0" encoding="UTF-8"?>
2. <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/">
3. <wsdl:types>
4. <xs:schema xmlns:tns5="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports" targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">
5. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
6. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
7. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
8. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"/>
9. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants"/>
10. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
11. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
12. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
13. <xs:import namespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
14. <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
15. <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
16. </xs:schema>
17. </wsdl:types>
18. <wsdl:portType name="BusinessDataCatalogSharedService">
19. <wsdl:operation name="GetServiceApplicationId">
20. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage"/>
21. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse" message="tns:BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage"/>
22. </wsdl:operation>
23. <wsdl:operation name="GetAllPartitionIds">
24. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage"/>
25. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage"/>
26. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_AccessDeniedExceptionFault\_FaultMessage"/>
27. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_BdcExceptionStateFault\_FaultMessage"/>
28. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_InvalidOperationExceptionFault\_FaultMessage"/>
29. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPartitionIds\_MetadataExceptionStateFault\_FaultMessage"/>
30. </wsdl:operation>
31. <wsdl:operation name="ReadSlicedXml">
32. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage"/>
33. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage"/>
34. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_AccessDeniedExceptionFault\_FaultMessage"/>
35. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentExceptionFault\_FaultMessage"/>
36. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentNullExceptionFault\_FaultMessage"/>
37. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
38. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_BdcExceptionStateFault\_FaultMessage"/>
39. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_InvalidOperationExceptionFault\_FaultMessage"/>
40. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_MetadataExceptionStateFault\_FaultMessage"/>
41. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ReadSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
42. </wsdl:operation>
43. <wsdl:operation name="WriteSlicedXml">
44. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage"/>
45. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlResponse" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage"/>
46. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_AccessDeniedExceptionFault\_FaultMessage"/>
47. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentExceptionFault\_FaultMessage"/>
48. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentNullExceptionFault\_FaultMessage"/>
49. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
50. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_BdcExceptionStateFault\_FaultMessage"/>
51. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_InvalidOperationExceptionFault\_FaultMessage"/>
52. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_MetadataExceptionStateFault\_FaultMessage"/>
53. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_WriteSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
54. </wsdl:operation>
55. <wsdl:operation name="HaveRights">
56. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InputMessage"/>
57. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse" message="tns:BusinessDataCatalogSharedService\_HaveRights\_OutputMessage"/>
58. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentExceptionFault\_FaultMessage"/>
59. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentNullExceptionFault\_FaultMessage"/>
60. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
61. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_BdcExceptionStateFault\_FaultMessage"/>
62. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_InvalidOperationExceptionFault\_FaultMessage"/>
63. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_HaveRights\_MetadataExceptionStateFault\_FaultMessage"/>
64. </wsdl:operation>
65. <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
66. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage"/>
67. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage"/>
68. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage"/>
69. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage"/>
70. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
71. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage"/>
72. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage"/>
73. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage"/>
74. </wsdl:operation>
75. <wsdl:operation name="GetAllLocalizedNames">
76. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage"/>
77. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage"/>
78. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentExceptionFault\_FaultMessage"/>
79. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage"/>
80. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
81. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_BdcExceptionStateFault\_FaultMessage"/>
82. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage"/>
83. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllLocalizedNames\_MetadataExceptionStateFault\_FaultMessage"/>
84. </wsdl:operation>
85. <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
86. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage"/>
87. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructResponse" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage"/>
88. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentExceptionFault\_FaultMessage"/>
89. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentNullExceptionFault\_FaultMessage"/>
90. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
91. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_BdcExceptionStateFault\_FaultMessage"/>
92. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InvalidOperationExceptionFault\_FaultMessage"/>
93. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_MetadataExceptionStateFault\_FaultMessage"/>
94. </wsdl:operation>
95. <wsdl:operation name="GetAllProperties">
96. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage"/>
97. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage"/>
98. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentExceptionFault\_FaultMessage"/>
99. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentNullExceptionFault\_FaultMessage"/>
100. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
101. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_BdcExceptionStateFault\_FaultMessage"/>
102. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_InvalidOperationExceptionFault\_FaultMessage"/>
103. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAllProperties\_MetadataExceptionStateFault\_FaultMessage"/>
104. </wsdl:operation>
105. <wsdl:operation name="SaveLocalizedName">
106. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage"/>
107. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage"/>
108. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentExceptionFault\_FaultMessage"/>
109. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage"/>
110. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
111. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_BdcExceptionStateFault\_FaultMessage"/>
112. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage"/>
113. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveLocalizedName\_MetadataExceptionStateFault\_FaultMessage"/>
114. </wsdl:operation>
115. <wsdl:operation name="ClearLocalizedNames">
116. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage"/>
117. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage"/>
118. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentExceptionFault\_FaultMessage"/>
119. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentNullExceptionFault\_FaultMessage"/>
120. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
121. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_BdcExceptionStateFault\_FaultMessage"/>
122. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_InvalidOperationExceptionFault\_FaultMessage"/>
123. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearLocalizedNames\_MetadataExceptionStateFault\_FaultMessage"/>
124. </wsdl:operation>
125. <wsdl:operation name="RemoveLocalizedName">
126. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage"/>
127. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage"/>
128. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentExceptionFault\_FaultMessage"/>
129. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentNullExceptionFault\_FaultMessage"/>
130. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
131. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_BdcExceptionStateFault\_FaultMessage"/>
132. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_InvalidOperationExceptionFault\_FaultMessage"/>
133. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveLocalizedName\_MetadataExceptionStateFault\_FaultMessage"/>
134. </wsdl:operation>
135. <wsdl:operation name="SaveProperty">
136. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InputMessage"/>
137. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage"/>
138. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentExceptionFault\_FaultMessage"/>
139. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentNullExceptionFault\_FaultMessage"/>
140. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
141. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_BdcExceptionStateFault\_FaultMessage"/>
142. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_InvalidOperationExceptionFault\_FaultMessage"/>
143. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SaveProperty\_MetadataExceptionStateFault\_FaultMessage"/>
144. </wsdl:operation>
145. <wsdl:operation name="ClearProperties">
146. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InputMessage"/>
147. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage"/>
148. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentExceptionFault\_FaultMessage"/>
149. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentNullExceptionFault\_FaultMessage"/>
150. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
151. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_BdcExceptionStateFault\_FaultMessage"/>
152. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_InvalidOperationExceptionFault\_FaultMessage"/>
153. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ClearProperties\_MetadataExceptionStateFault\_FaultMessage"/>
154. </wsdl:operation>
155. <wsdl:operation name="RemoveProperty">
156. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage"/>
157. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage"/>
158. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentExceptionFault\_FaultMessage"/>
159. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentNullExceptionFault\_FaultMessage"/>
160. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
161. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_BdcExceptionStateFault\_FaultMessage"/>
162. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_InvalidOperationExceptionFault\_FaultMessage"/>
163. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveProperty\_MetadataExceptionStateFault\_FaultMessage"/>
164. </wsdl:operation>
165. <wsdl:operation name="GetAccessControlEntries">
166. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage"/>
167. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage"/>
168. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage"/>
169. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage"/>
170. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
171. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage"/>
172. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage"/>
173. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage"/>
174. </wsdl:operation>
175. <wsdl:operation name="SetAccessControlEntries">
176. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage"/>
177. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesResponse" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage"/>
178. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentExceptionFault\_FaultMessage"/>
179. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentNullExceptionFault\_FaultMessage"/>
180. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
181. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_BdcExceptionStateFault\_FaultMessage"/>
182. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_InvalidOperationExceptionFault\_FaultMessage"/>
183. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntriesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetAccessControlEntries\_MetadataExceptionStateFault\_FaultMessage"/>
184. </wsdl:operation>
185. <wsdl:operation name="MetadataObjectCreate">
186. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage"/>
187. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage"/>
188. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentExceptionFault\_FaultMessage"/>
189. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentNullExceptionFault\_FaultMessage"/>
190. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
191. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_BdcExceptionStateFault\_FaultMessage"/>
192. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_InvalidOperationExceptionFault\_FaultMessage"/>
193. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectCreate\_MetadataExceptionStateFault\_FaultMessage"/>
194. </wsdl:operation>
195. <wsdl:operation name="Update">
196. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService\_Update\_InputMessage"/>
197. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse" message="tns:BusinessDataCatalogSharedService\_Update\_OutputMessage"/>
198. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentExceptionFault\_FaultMessage"/>
199. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentNullExceptionFault\_FaultMessage"/>
200. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
201. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_BdcExceptionStateFault\_FaultMessage"/>
202. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Update\_InvalidOperationExceptionFault\_FaultMessage"/>
203. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Update\_MetadataExceptionStateFault\_FaultMessage"/>
204. </wsdl:operation>
205. <wsdl:operation name="Delete">
206. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete" message="tns:BusinessDataCatalogSharedService\_Delete\_InputMessage"/>
207. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteResponse" message="tns:BusinessDataCatalogSharedService\_Delete\_OutputMessage"/>
208. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentExceptionFault\_FaultMessage"/>
209. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentNullExceptionFault\_FaultMessage"/>
210. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
211. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_BdcExceptionStateFault\_FaultMessage"/>
212. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Delete\_InvalidOperationExceptionFault\_FaultMessage"/>
213. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Delete\_MetadataExceptionStateFault\_FaultMessage"/>
214. </wsdl:operation>
215. <wsdl:operation name="MetadataObjectMergeXml">
216. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage"/>
217. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage"/>
218. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentExceptionFault\_FaultMessage"/>
219. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentNullExceptionFault\_FaultMessage"/>
220. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
221. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_BdcExceptionStateFault\_FaultMessage"/>
222. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InvalidOperationExceptionFault\_FaultMessage"/>
223. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_MetadataExceptionStateFault\_FaultMessage"/>
224. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
225. </wsdl:operation>
226. <wsdl:operation name="MetadataObjectReadXml">
227. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage"/>
228. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage"/>
229. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentExceptionFault\_FaultMessage"/>
230. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentNullExceptionFault\_FaultMessage"/>
231. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
232. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_BdcExceptionStateFault\_FaultMessage"/>
233. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InvalidOperationExceptionFault\_FaultMessage"/>
234. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_MetadataExceptionStateFault\_FaultMessage"/>
235. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectReadXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
236. </wsdl:operation>
237. <wsdl:operation name="MetadataObjectWriteXml">
238. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage"/>
239. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlResponse" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage"/>
240. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentExceptionFault\_FaultMessage"/>
241. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentNullExceptionFault\_FaultMessage"/>
242. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
243. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_BdcExceptionStateFault\_FaultMessage"/>
244. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InvalidOperationExceptionFault\_FaultMessage"/>
245. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_MetadataExceptionStateFault\_FaultMessage"/>
246. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
247. </wsdl:operation>
248. <wsdl:operation name="CopyAclAcrossChildren">
249. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage"/>
250. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage"/>
251. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentExceptionFault\_FaultMessage"/>
252. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentNullExceptionFault\_FaultMessage"/>
253. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
254. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_BdcExceptionStateFault\_FaultMessage"/>
255. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InvalidOperationExceptionFault\_FaultMessage"/>
256. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_MetadataExceptionStateFault\_FaultMessage"/>
257. </wsdl:operation>
258. <wsdl:operation name="CopyAclAcrossChildrenForSetting">
259. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage"/>
260. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage"/>
261. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentExceptionFault\_FaultMessage"/>
262. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentNullExceptionFault\_FaultMessage"/>
263. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
264. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_BdcExceptionStateFault\_FaultMessage"/>
265. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InvalidOperationExceptionFault\_FaultMessage"/>
266. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_MetadataExceptionStateFault\_FaultMessage"/>
267. </wsdl:operation>
268. <wsdl:operation name="CopyAclToSetting">
269. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage"/>
270. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage"/>
271. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentExceptionFault\_FaultMessage"/>
272. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentNullExceptionFault\_FaultMessage"/>
273. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
274. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_BdcExceptionStateFault\_FaultMessage"/>
275. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_InvalidOperationExceptionFault\_FaultMessage"/>
276. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CopyAclToSetting\_MetadataExceptionStateFault\_FaultMessage"/>
277. </wsdl:operation>
278. <wsdl:operation name="GetCacheInvalidationRecordsSince">
279. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage"/>
280. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceResponse" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage"/>
281. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_AccessDeniedExceptionFault\_FaultMessage"/>
282. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentExceptionFault\_FaultMessage"/>
283. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentNullExceptionFault\_FaultMessage"/>
284. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
285. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_BdcExceptionStateFault\_FaultMessage"/>
286. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InvalidOperationExceptionFault\_FaultMessage"/>
287. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_MetadataExceptionStateFault\_FaultMessage"/>
288. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_PackageFormatExceptionStateFault\_FaultMessage"/>
289. </wsdl:operation>
290. <wsdl:operation name="ImportPackage">
291. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InputMessage"/>
292. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage"/>
293. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentExceptionFault\_FaultMessage"/>
294. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentNullExceptionFault\_FaultMessage"/>
295. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
296. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_BdcExceptionStateFault\_FaultMessage"/>
297. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_InvalidOperationExceptionFault\_FaultMessage"/>
298. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_MetadataExceptionStateFault\_FaultMessage"/>
299. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackage\_PackageFormatExceptionStateFault\_FaultMessage"/>
300. </wsdl:operation>
301. <wsdl:operation name="ImportPackageWithProgress">
302. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage"/>
303. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage"/>
304. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentExceptionFault\_FaultMessage"/>
305. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentNullExceptionFault\_FaultMessage"/>
306. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
307. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_BdcExceptionStateFault\_FaultMessage"/>
308. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InvalidOperationExceptionFault\_FaultMessage"/>
309. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_MetadataExceptionStateFault\_FaultMessage"/>
310. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ImportPackageWithProgress\_PackageFormatExceptionStateFault\_FaultMessage"/>
311. </wsdl:operation>
312. <wsdl:operation name="GetImportProgress">
313. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage"/>
314. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse" message="tns:BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage"/>
315. </wsdl:operation>
316. <wsdl:operation name="ExportPackage">
317. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InputMessage"/>
318. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage"/>
319. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentExceptionFault\_FaultMessage"/>
320. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentNullExceptionFault\_FaultMessage"/>
321. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
322. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_BdcExceptionStateFault\_FaultMessage"/>
323. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_InvalidOperationExceptionFault\_FaultMessage"/>
324. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_MetadataExceptionStateFault\_FaultMessage"/>
325. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ExportPackage\_PackageFormatExceptionStateFault\_FaultMessage"/>
326. </wsdl:operation>
327. <wsdl:operation name="GetModelById">
328. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InputMessage"/>
329. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelById\_OutputMessage"/>
330. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentExceptionFault\_FaultMessage"/>
331. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentNullExceptionFault\_FaultMessage"/>
332. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
333. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_BdcExceptionStateFault\_FaultMessage"/>
334. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_InvalidOperationExceptionFault\_FaultMessage"/>
335. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelById\_MetadataExceptionStateFault\_FaultMessage"/>
336. </wsdl:operation>
337. <wsdl:operation name="GetModelsByName">
338. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage"/>
339. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage"/>
340. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentExceptionFault\_FaultMessage"/>
341. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentNullExceptionFault\_FaultMessage"/>
342. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
343. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_BdcExceptionStateFault\_FaultMessage"/>
344. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_InvalidOperationExceptionFault\_FaultMessage"/>
345. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByName\_MetadataExceptionStateFault\_FaultMessage"/>
346. </wsdl:operation>
347. <wsdl:operation name="GetModelByName">
348. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InputMessage"/>
349. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage"/>
350. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentExceptionFault\_FaultMessage"/>
351. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentNullExceptionFault\_FaultMessage"/>
352. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
353. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_BdcExceptionStateFault\_FaultMessage"/>
354. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_InvalidOperationExceptionFault\_FaultMessage"/>
355. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelByName\_MetadataExceptionStateFault\_FaultMessage"/>
356. </wsdl:operation>
357. <wsdl:operation name="GetModelsByEntityId">
358. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage"/>
359. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdResponse" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage"/>
360. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentExceptionFault\_FaultMessage"/>
361. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentNullExceptionFault\_FaultMessage"/>
362. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
363. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_BdcExceptionStateFault\_FaultMessage"/>
364. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_InvalidOperationExceptionFault\_FaultMessage"/>
365. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetModelsByEntityId\_MetadataExceptionStateFault\_FaultMessage"/>
366. </wsdl:operation>
367. <wsdl:operation name="AddEntityToModel">
368. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage"/>
369. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelResponse" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage"/>
370. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentExceptionFault\_FaultMessage"/>
371. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentNullExceptionFault\_FaultMessage"/>
372. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
373. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_BdcExceptionStateFault\_FaultMessage"/>
374. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_InvalidOperationExceptionFault\_FaultMessage"/>
375. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddEntityToModel\_MetadataExceptionStateFault\_FaultMessage"/>
376. </wsdl:operation>
377. <wsdl:operation name="RemoveEntityFromModel">
378. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage"/>
379. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage"/>
380. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentExceptionFault\_FaultMessage"/>
381. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentNullExceptionFault\_FaultMessage"/>
382. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
383. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_BdcExceptionStateFault\_FaultMessage"/>
384. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InvalidOperationExceptionFault\_FaultMessage"/>
385. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveEntityFromModel\_MetadataExceptionStateFault\_FaultMessage"/>
386. </wsdl:operation>
387. <wsdl:operation name="DeleteNoCascade">
388. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage"/>
389. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage"/>
390. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentExceptionFault\_FaultMessage"/>
391. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentNullExceptionFault\_FaultMessage"/>
392. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
393. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_BdcExceptionStateFault\_FaultMessage"/>
394. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_InvalidOperationExceptionFault\_FaultMessage"/>
395. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteNoCascade\_MetadataExceptionStateFault\_FaultMessage"/>
396. </wsdl:operation>
397. <wsdl:operation name="ModelReadXml">
398. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage"/>
399. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage"/>
400. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentExceptionFault\_FaultMessage"/>
401. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentNullExceptionFault\_FaultMessage"/>
402. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
403. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_BdcExceptionStateFault\_FaultMessage"/>
404. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_InvalidOperationExceptionFault\_FaultMessage"/>
405. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_MetadataExceptionStateFault\_FaultMessage"/>
406. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_ModelReadXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
407. </wsdl:operation>
408. <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
409. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage"/>
410. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage"/>
411. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentExceptionFault\_FaultMessage"/>
412. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage"/>
413. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
414. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_BdcExceptionStateFault\_FaultMessage"/>
415. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage"/>
416. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_MetadataExceptionStateFault\_FaultMessage"/>
417. </wsdl:operation>
418. <wsdl:operation name="GetLobSystemAllAssembliesBytes">
419. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage"/>
420. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage"/>
421. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentExceptionFault\_FaultMessage"/>
422. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentNullExceptionFault\_FaultMessage"/>
423. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
424. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_BdcExceptionStateFault\_FaultMessage"/>
425. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InvalidOperationExceptionFault\_FaultMessage"/>
426. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_MetadataExceptionStateFault\_FaultMessage"/>
427. </wsdl:operation>
428. <wsdl:operation name="GetLobSystemDataByLobSystem">
429. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage"/>
430. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage"/>
431. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
432. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
433. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
434. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
435. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
436. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
437. </wsdl:operation>
438. <wsdl:operation name="SetLobSystemDataByLobSystemId">
439. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage"/>
440. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdResponse" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage"/>
441. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentExceptionFault\_FaultMessage"/>
442. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentNullExceptionFault\_FaultMessage"/>
443. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
444. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_BdcExceptionStateFault\_FaultMessage"/>
445. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InvalidOperationExceptionFault\_FaultMessage"/>
446. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_MetadataExceptionStateFault\_FaultMessage"/>
447. </wsdl:operation>
448. <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
449. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage"/>
450. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage"/>
451. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentExceptionFault\_FaultMessage"/>
452. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentNullExceptionFault\_FaultMessage"/>
453. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
454. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_BdcExceptionStateFault\_FaultMessage"/>
455. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InvalidOperationExceptionFault\_FaultMessage"/>
456. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_MetadataExceptionStateFault\_FaultMessage"/>
457. </wsdl:operation>
458. <wsdl:operation name="GetLobSystemByName">
459. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage"/>
460. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage"/>
461. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentExceptionFault\_FaultMessage"/>
462. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentNullExceptionFault\_FaultMessage"/>
463. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
464. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_BdcExceptionStateFault\_FaultMessage"/>
465. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_InvalidOperationExceptionFault\_FaultMessage"/>
466. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemByName\_MetadataExceptionStateFault\_FaultMessage"/>
467. </wsdl:operation>
468. <wsdl:operation name="GetLobSystemsLikeName">
469. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage"/>
470. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage"/>
471. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentExceptionFault\_FaultMessage"/>
472. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentNullExceptionFault\_FaultMessage"/>
473. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
474. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_BdcExceptionStateFault\_FaultMessage"/>
475. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InvalidOperationExceptionFault\_FaultMessage"/>
476. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_MetadataExceptionStateFault\_FaultMessage"/>
477. </wsdl:operation>
478. <wsdl:operation name="GetLobSystemById">
479. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage"/>
480. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage"/>
481. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentExceptionFault\_FaultMessage"/>
482. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentNullExceptionFault\_FaultMessage"/>
483. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
484. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_BdcExceptionStateFault\_FaultMessage"/>
485. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_InvalidOperationExceptionFault\_FaultMessage"/>
486. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemById\_MetadataExceptionStateFault\_FaultMessage"/>
487. </wsdl:operation>
488. <wsdl:operation name="GetEntityCount">
489. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage"/>
490. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage"/>
491. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentExceptionFault\_FaultMessage"/>
492. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentNullExceptionFault\_FaultMessage"/>
493. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
494. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_BdcExceptionStateFault\_FaultMessage"/>
495. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_InvalidOperationExceptionFault\_FaultMessage"/>
496. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityCount\_MetadataExceptionStateFault\_FaultMessage"/>
497. </wsdl:operation>
498. <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
499. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage"/>
500. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage"/>
501. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
502. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
503. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
504. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
505. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
506. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
507. </wsdl:operation>
508. <wsdl:operation name="GenerateProxyAssemblyForLobSystem">
509. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage"/>
510. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage"/>
511. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
512. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
513. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
514. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
515. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
516. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
517. </wsdl:operation>
518. <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
519. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage"/>
520. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage"/>
521. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
522. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
523. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
524. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
525. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
526. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
527. </wsdl:operation>
528. <wsdl:operation name="GetLobSystemInstancesForLobSystem">
529. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage"/>
530. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage"/>
531. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentExceptionFault\_FaultMessage"/>
532. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
533. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
534. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_BdcExceptionStateFault\_FaultMessage"/>
535. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
536. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_MetadataExceptionStateFault\_FaultMessage"/>
537. </wsdl:operation>
538. <wsdl:operation name="GetLobSystemInstanceById">
539. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage"/>
540. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage"/>
541. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentExceptionFault\_FaultMessage"/>
542. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentNullExceptionFault\_FaultMessage"/>
543. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
544. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_BdcExceptionStateFault\_FaultMessage"/>
545. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InvalidOperationExceptionFault\_FaultMessage"/>
546. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_MetadataExceptionStateFault\_FaultMessage"/>
547. </wsdl:operation>
548. <wsdl:operation name="GetDataClassesForSystem">
549. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage"/>
550. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage"/>
551. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentExceptionFault\_FaultMessage"/>
552. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
553. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
554. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_BdcExceptionStateFault\_FaultMessage"/>
555. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
556. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassesForSystem\_MetadataExceptionStateFault\_FaultMessage"/>
557. </wsdl:operation>
558. <wsdl:operation name="GetDataClassById">
559. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage"/>
560. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage"/>
561. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentExceptionFault\_FaultMessage"/>
562. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentNullExceptionFault\_FaultMessage"/>
563. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
564. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_BdcExceptionStateFault\_FaultMessage"/>
565. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_InvalidOperationExceptionFault\_FaultMessage"/>
566. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDataClassById\_MetadataExceptionStateFault\_FaultMessage"/>
567. </wsdl:operation>
568. <wsdl:operation name="GetEntitiesReferencedByModelId">
569. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage"/>
570. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage"/>
571. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentExceptionFault\_FaultMessage"/>
572. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentNullExceptionFault\_FaultMessage"/>
573. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
574. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_BdcExceptionStateFault\_FaultMessage"/>
575. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InvalidOperationExceptionFault\_FaultMessage"/>
576. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_MetadataExceptionStateFault\_FaultMessage"/>
577. </wsdl:operation>
578. <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
579. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage"/>
580. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage"/>
581. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentExceptionFault\_FaultMessage"/>
582. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage"/>
583. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
584. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_BdcExceptionStateFault\_FaultMessage"/>
585. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage"/>
586. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage"/>
587. </wsdl:operation>
588. <wsdl:operation name="GetEntityWithNameAndNamespace">
589. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage"/>
590. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage"/>
591. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentExceptionFault\_FaultMessage"/>
592. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentNullExceptionFault\_FaultMessage"/>
593. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
594. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_BdcExceptionStateFault\_FaultMessage"/>
595. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InvalidOperationExceptionFault\_FaultMessage"/>
596. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_MetadataExceptionStateFault\_FaultMessage"/>
597. </wsdl:operation>
598. <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
599. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage"/>
600. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage"/>
601. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentExceptionFault\_FaultMessage"/>
602. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentNullExceptionFault\_FaultMessage"/>
603. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
604. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_BdcExceptionStateFault\_FaultMessage"/>
605. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InvalidOperationExceptionFault\_FaultMessage"/>
606. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_MetadataExceptionStateFault\_FaultMessage"/>
607. </wsdl:operation>
608. <wsdl:operation name="GetEntitiesForSystem">
609. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage"/>
610. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage"/>
611. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentExceptionFault\_FaultMessage"/>
612. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentNullExceptionFault\_FaultMessage"/>
613. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
614. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_BdcExceptionStateFault\_FaultMessage"/>
615. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InvalidOperationExceptionFault\_FaultMessage"/>
616. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForSystem\_MetadataExceptionStateFault\_FaultMessage"/>
617. </wsdl:operation>
618. <wsdl:operation name="GetEntitiesForAssociationAndRole">
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620. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage"/>
621. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage"/>
622. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage"/>
623. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
624. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage"/>
625. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage"/>
626. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage"/>
627. </wsdl:operation>
628. <wsdl:operation name="SetDefaultActionForEntity">
629. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage"/>
630. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage"/>
631. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentExceptionFault\_FaultMessage"/>
632. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
633. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
634. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_BdcExceptionStateFault\_FaultMessage"/>
635. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
636. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
637. </wsdl:operation>
638. <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
639. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage"/>
640. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage"/>
641. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentExceptionFault\_FaultMessage"/>
642. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentNullExceptionFault\_FaultMessage"/>
643. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
644. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_BdcExceptionStateFault\_FaultMessage"/>
645. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InvalidOperationExceptionFault\_FaultMessage"/>
646. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_MetadataExceptionStateFault\_FaultMessage"/>
647. </wsdl:operation>
648. <wsdl:operation name="GetEntityById">
649. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InputMessage"/>
650. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage"/>
651. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentExceptionFault\_FaultMessage"/>
652. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentNullExceptionFault\_FaultMessage"/>
653. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
654. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_BdcExceptionStateFault\_FaultMessage"/>
655. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_InvalidOperationExceptionFault\_FaultMessage"/>
656. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetEntityById\_MetadataExceptionStateFault\_FaultMessage"/>
657. </wsdl:operation>
658. <wsdl:operation name="EntityCreate">
659. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InputMessage"/>
660. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage"/>
661. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentExceptionFault\_FaultMessage"/>
662. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentNullExceptionFault\_FaultMessage"/>
663. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
664. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_BdcExceptionStateFault\_FaultMessage"/>
665. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_InvalidOperationExceptionFault\_FaultMessage"/>
666. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_MetadataExceptionStateFault\_FaultMessage"/>
667. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_EntityCreate\_PackageFormatExceptionStateFault\_FaultMessage"/>
668. </wsdl:operation>
669. <wsdl:operation name="Activate">
670. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns:BusinessDataCatalogSharedService\_Activate\_InputMessage"/>
671. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse" message="tns:BusinessDataCatalogSharedService\_Activate\_OutputMessage"/>
672. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentExceptionFault\_FaultMessage"/>
673. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentNullExceptionFault\_FaultMessage"/>
674. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
675. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_BdcExceptionStateFault\_FaultMessage"/>
676. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Activate\_InvalidOperationExceptionFault\_FaultMessage"/>
677. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_MetadataExceptionStateFault\_FaultMessage"/>
678. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Activate\_PackageFormatExceptionStateFault\_FaultMessage"/>
679. </wsdl:operation>
680. <wsdl:operation name="Deactivate">
681. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InputMessage"/>
682. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse" message="tns:BusinessDataCatalogSharedService\_Deactivate\_OutputMessage"/>
683. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentExceptionFault\_FaultMessage"/>
684. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentNullExceptionFault\_FaultMessage"/>
685. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
686. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_BdcExceptionStateFault\_FaultMessage"/>
687. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_InvalidOperationExceptionFault\_FaultMessage"/>
688. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_MetadataExceptionStateFault\_FaultMessage"/>
689. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_Deactivate\_PackageFormatExceptionStateFault\_FaultMessage"/>
690. </wsdl:operation>
691. <wsdl:operation name="BulkSwitchActiveOrValidate">
692. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage"/>
693. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateResponse" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage"/>
694. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentExceptionFault\_FaultMessage"/>
695. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentNullExceptionFault\_FaultMessage"/>
696. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
697. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_BdcExceptionStateFault\_FaultMessage"/>
698. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InvalidOperationExceptionFault\_FaultMessage"/>
699. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_MetadataExceptionStateFault\_FaultMessage"/>
700. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_PackageFormatExceptionStateFault\_FaultMessage"/>
701. </wsdl:operation>
702. <wsdl:operation name="GetActionById">
703. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InputMessage"/>
704. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionById\_OutputMessage"/>
705. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentExceptionFault\_FaultMessage"/>
706. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentNullExceptionFault\_FaultMessage"/>
707. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
708. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_BdcExceptionStateFault\_FaultMessage"/>
709. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_InvalidOperationExceptionFault\_FaultMessage"/>
710. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionById\_MetadataExceptionStateFault\_FaultMessage"/>
711. </wsdl:operation>
712. <wsdl:operation name="GetActionsForEntity">
713. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage"/>
714. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage"/>
715. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentExceptionFault\_FaultMessage"/>
716. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
717. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
718. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_BdcExceptionStateFault\_FaultMessage"/>
719. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
720. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionsForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
721. </wsdl:operation>
722. <wsdl:operation name="GetActionParameterById">
723. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage"/>
724. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage"/>
725. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentExceptionFault\_FaultMessage"/>
726. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentNullExceptionFault\_FaultMessage"/>
727. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
728. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_BdcExceptionStateFault\_FaultMessage"/>
729. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_InvalidOperationExceptionFault\_FaultMessage"/>
730. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParameterById\_MetadataExceptionStateFault\_FaultMessage"/>
731. </wsdl:operation>
732. <wsdl:operation name="GetActionParametersForAction">
733. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage"/>
734. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage"/>
735. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentExceptionFault\_FaultMessage"/>
736. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentNullExceptionFault\_FaultMessage"/>
737. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
738. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_BdcExceptionStateFault\_FaultMessage"/>
739. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_InvalidOperationExceptionFault\_FaultMessage"/>
740. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetActionParametersForAction\_MetadataExceptionStateFault\_FaultMessage"/>
741. </wsdl:operation>
742. <wsdl:operation name="GetIdentifierById">
743. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage"/>
744. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage"/>
745. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentExceptionFault\_FaultMessage"/>
746. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentNullExceptionFault\_FaultMessage"/>
747. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
748. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_BdcExceptionStateFault\_FaultMessage"/>
749. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_InvalidOperationExceptionFault\_FaultMessage"/>
750. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifierById\_MetadataExceptionStateFault\_FaultMessage"/>
751. </wsdl:operation>
752. <wsdl:operation name="GetIdentifiersForEntity">
753. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage"/>
754. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage"/>
755. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentExceptionFault\_FaultMessage"/>
756. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
757. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
758. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_BdcExceptionStateFault\_FaultMessage"/>
759. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
760. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
761. </wsdl:operation>
762. <wsdl:operation name="GetMethodById">
763. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InputMessage"/>
764. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage"/>
765. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentExceptionFault\_FaultMessage"/>
766. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentNullExceptionFault\_FaultMessage"/>
767. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
768. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_BdcExceptionStateFault\_FaultMessage"/>
769. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_InvalidOperationExceptionFault\_FaultMessage"/>
770. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodById\_MetadataExceptionStateFault\_FaultMessage"/>
771. </wsdl:operation>
772. <wsdl:operation name="GetMethodsForDataClass">
773. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage"/>
774. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage"/>
775. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentExceptionFault\_FaultMessage"/>
776. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentNullExceptionFault\_FaultMessage"/>
777. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
778. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_BdcExceptionStateFault\_FaultMessage"/>
779. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InvalidOperationExceptionFault\_FaultMessage"/>
780. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodsForDataClass\_MetadataExceptionStateFault\_FaultMessage"/>
781. </wsdl:operation>
782. <wsdl:operation name="IsMethodInstantiated">
783. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage"/>
784. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage"/>
785. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentExceptionFault\_FaultMessage"/>
786. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentNullExceptionFault\_FaultMessage"/>
787. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
788. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_BdcExceptionStateFault\_FaultMessage"/>
789. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_InvalidOperationExceptionFault\_FaultMessage"/>
790. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsMethodInstantiated\_MetadataExceptionStateFault\_FaultMessage"/>
791. </wsdl:operation>
792. <wsdl:operation name="GetFilterDescriptorById">
793. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage"/>
794. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage"/>
795. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentExceptionFault\_FaultMessage"/>
796. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentNullExceptionFault\_FaultMessage"/>
797. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
798. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_BdcExceptionStateFault\_FaultMessage"/>
799. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InvalidOperationExceptionFault\_FaultMessage"/>
800. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorById\_MetadataExceptionStateFault\_FaultMessage"/>
801. </wsdl:operation>
802. <wsdl:operation name="GetFilterDescriptorsForMethod">
803. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage"/>
804. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage"/>
805. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentExceptionFault\_FaultMessage"/>
806. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
807. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
808. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_BdcExceptionStateFault\_FaultMessage"/>
809. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
810. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
811. </wsdl:operation>
812. <wsdl:operation name="GetMethodInstanceById">
813. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage"/>
814. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage"/>
815. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentExceptionFault\_FaultMessage"/>
816. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentNullExceptionFault\_FaultMessage"/>
817. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
818. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_BdcExceptionStateFault\_FaultMessage"/>
819. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_InvalidOperationExceptionFault\_FaultMessage"/>
820. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstanceById\_MetadataExceptionStateFault\_FaultMessage"/>
821. </wsdl:operation>
822. <wsdl:operation name="GetMethodInstancesForDataClass">
823. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage"/>
824. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage"/>
825. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentExceptionFault\_FaultMessage"/>
826. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentNullExceptionFault\_FaultMessage"/>
827. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
828. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_BdcExceptionStateFault\_FaultMessage"/>
829. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InvalidOperationExceptionFault\_FaultMessage"/>
830. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_MetadataExceptionStateFault\_FaultMessage"/>
831. </wsdl:operation>
832. <wsdl:operation name="GetMethodInstancesForMethod">
833. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage"/>
834. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage"/>
835. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentExceptionFault\_FaultMessage"/>
836. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
837. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
838. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_BdcExceptionStateFault\_FaultMessage"/>
839. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
840. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
841. </wsdl:operation>
842. <wsdl:operation name="CheckPathInMethodInstances">
843. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage"/>
844. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesResponse" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage"/>
845. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentExceptionFault\_FaultMessage"/>
846. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentNullExceptionFault\_FaultMessage"/>
847. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_BdcExceptionStateFault\_FaultMessage"/>
848. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_MetadataExceptionStateFault\_FaultMessage"/>
849. </wsdl:operation>
850. <wsdl:operation name="GetParameterById">
851. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InputMessage"/>
852. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage"/>
853. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentExceptionFault\_FaultMessage"/>
854. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentNullExceptionFault\_FaultMessage"/>
855. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
856. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_BdcExceptionStateFault\_FaultMessage"/>
857. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_InvalidOperationExceptionFault\_FaultMessage"/>
858. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParameterById\_MetadataExceptionStateFault\_FaultMessage"/>
859. </wsdl:operation>
860. <wsdl:operation name="GetParametersForMethod">
861. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage"/>
862. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage"/>
863. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentExceptionFault\_FaultMessage"/>
864. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
865. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
866. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_BdcExceptionStateFault\_FaultMessage"/>
867. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
868. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetParametersForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
869. </wsdl:operation>
870. <wsdl:operation name="IsParameterReferencedByMethodInstance">
871. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage"/>
872. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage"/>
873. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentExceptionFault\_FaultMessage"/>
874. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage"/>
875. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
876. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_BdcExceptionStateFault\_FaultMessage"/>
877. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage"/>
878. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_MetadataExceptionStateFault\_FaultMessage"/>
879. </wsdl:operation>
880. <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
881. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage"/>
882. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage"/>
883. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentExceptionFault\_FaultMessage"/>
884. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentNullExceptionFault\_FaultMessage"/>
885. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
886. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_BdcExceptionStateFault\_FaultMessage"/>
887. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InvalidOperationExceptionFault\_FaultMessage"/>
888. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_MetadataExceptionStateFault\_FaultMessage"/>
889. </wsdl:operation>
890. <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
891. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage"/>
892. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage"/>
893. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
894. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
895. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
896. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
897. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
898. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
899. </wsdl:operation>
900. <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
901. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage"/>
902. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage"/>
903. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentExceptionFault\_FaultMessage"/>
904. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentNullExceptionFault\_FaultMessage"/>
905. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
906. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_BdcExceptionStateFault\_FaultMessage"/>
907. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InvalidOperationExceptionFault\_FaultMessage"/>
908. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_MetadataExceptionStateFault\_FaultMessage"/>
909. </wsdl:operation>
910. <wsdl:operation name="GetTypeDescriptorById">
911. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage"/>
912. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage"/>
913. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentExceptionFault\_FaultMessage"/>
914. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentNullExceptionFault\_FaultMessage"/>
915. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
916. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_BdcExceptionStateFault\_FaultMessage"/>
917. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InvalidOperationExceptionFault\_FaultMessage"/>
918. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorById\_MetadataExceptionStateFault\_FaultMessage"/>
919. </wsdl:operation>
920. <wsdl:operation name="GetRootTypeDescriptorForParameter">
921. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage"/>
922. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage"/>
923. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentExceptionFault\_FaultMessage"/>
924. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentNullExceptionFault\_FaultMessage"/>
925. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
926. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_BdcExceptionStateFault\_FaultMessage"/>
927. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InvalidOperationExceptionFault\_FaultMessage"/>
928. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_MetadataExceptionStateFault\_FaultMessage"/>
929. </wsdl:operation>
930. <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
931. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage"/>
932. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage"/>
933. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentExceptionFault\_FaultMessage"/>
934. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentNullExceptionFault\_FaultMessage"/>
935. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
936. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_BdcExceptionStateFault\_FaultMessage"/>
937. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InvalidOperationExceptionFault\_FaultMessage"/>
938. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_MetadataExceptionStateFault\_FaultMessage"/>
939. </wsdl:operation>
940. <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
941. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage"/>
942. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage"/>
943. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
944. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
945. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
946. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
947. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
948. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
949. </wsdl:operation>
950. <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
951. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage"/>
952. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage"/>
953. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
954. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
955. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
956. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
957. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
958. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
959. </wsdl:operation>
960. <wsdl:operation name="GetDefaultValuesForTypeDescriptor">
961. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage"/>
962. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage"/>
963. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
964. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
965. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
966. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
967. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
968. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
969. </wsdl:operation>
970. <wsdl:operation name="SetDefaultValuesForTypeDescriptor">
971. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage"/>
972. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage"/>
973. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
974. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
975. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
976. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
977. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
978. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
979. </wsdl:operation>
980. <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
981. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage"/>
982. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage"/>
983. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
984. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
985. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
986. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
987. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
988. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
989. </wsdl:operation>
990. <wsdl:operation name="GetLevelForTypeDescriptor">
991. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage"/>
992. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage"/>
993. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentExceptionFault\_FaultMessage"/>
994. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentNullExceptionFault\_FaultMessage"/>
995. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
996. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_BdcExceptionStateFault\_FaultMessage"/>
997. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InvalidOperationExceptionFault\_FaultMessage"/>
998. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_MetadataExceptionStateFault\_FaultMessage"/>
999. </wsdl:operation>
1000. <wsdl:operation name="TypeDescriptorCreate">
1001. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage"/>
1002. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage"/>
1003. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentExceptionFault\_FaultMessage"/>
1004. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentNullExceptionFault\_FaultMessage"/>
1005. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1006. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_BdcExceptionStateFault\_FaultMessage"/>
1007. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InvalidOperationExceptionFault\_FaultMessage"/>
1008. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorCreate\_MetadataExceptionStateFault\_FaultMessage"/>
1009. </wsdl:operation>
1010. <wsdl:operation name="TypeDescriptorMergeXml">
1011. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage"/>
1012. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage"/>
1013. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentExceptionFault\_FaultMessage"/>
1014. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentNullExceptionFault\_FaultMessage"/>
1015. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1016. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_BdcExceptionStateFault\_FaultMessage"/>
1017. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InvalidOperationExceptionFault\_FaultMessage"/>
1018. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_MetadataExceptionStateFault\_FaultMessage"/>
1019. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
1020. </wsdl:operation>
1021. <wsdl:operation name="TypeDescriptorReadXml">
1022. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage"/>
1023. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlResponse" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage"/>
1024. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentExceptionFault\_FaultMessage"/>
1025. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentNullExceptionFault\_FaultMessage"/>
1026. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1027. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_BdcExceptionStateFault\_FaultMessage"/>
1028. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InvalidOperationExceptionFault\_FaultMessage"/>
1029. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_MetadataExceptionStateFault\_FaultMessage"/>
1030. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXmlPackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_PackageFormatExceptionStateFault\_FaultMessage"/>
1031. </wsdl:operation>
1032. <wsdl:operation name="GetAssociationById">
1033. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage"/>
1034. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage"/>
1035. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentExceptionFault\_FaultMessage"/>
1036. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentNullExceptionFault\_FaultMessage"/>
1037. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1038. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_BdcExceptionStateFault\_FaultMessage"/>
1039. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_InvalidOperationExceptionFault\_FaultMessage"/>
1040. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationById\_MetadataExceptionStateFault\_FaultMessage"/>
1041. </wsdl:operation>
1042. <wsdl:operation name="GetAssociationsForEntityAndRole">
1043. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage"/>
1044. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage"/>
1045. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentExceptionFault\_FaultMessage"/>
1046. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentNullExceptionFault\_FaultMessage"/>
1047. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1048. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_BdcExceptionStateFault\_FaultMessage"/>
1049. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InvalidOperationExceptionFault\_FaultMessage"/>
1050. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_MetadataExceptionStateFault\_FaultMessage"/>
1051. </wsdl:operation>
1052. <wsdl:operation name="GetAssociationsForDataClass">
1053. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage"/>
1054. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage"/>
1055. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentExceptionFault\_FaultMessage"/>
1056. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentNullExceptionFault\_FaultMessage"/>
1057. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1058. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_BdcExceptionStateFault\_FaultMessage"/>
1059. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InvalidOperationExceptionFault\_FaultMessage"/>
1060. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_MetadataExceptionStateFault\_FaultMessage"/>
1061. </wsdl:operation>
1062. <wsdl:operation name="GetAssociationsForMethod">
1063. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage"/>
1064. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage"/>
1065. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentExceptionFault\_FaultMessage"/>
1066. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentNullExceptionFault\_FaultMessage"/>
1067. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1068. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_BdcExceptionStateFault\_FaultMessage"/>
1069. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InvalidOperationExceptionFault\_FaultMessage"/>
1070. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationsForMethod\_MetadataExceptionStateFault\_FaultMessage"/>
1071. </wsdl:operation>
1072. <wsdl:operation name="GetAssociationMembersInRole">
1073. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage"/>
1074. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage"/>
1075. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentExceptionFault\_FaultMessage"/>
1076. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentNullExceptionFault\_FaultMessage"/>
1077. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1078. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_BdcExceptionStateFault\_FaultMessage"/>
1079. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InvalidOperationExceptionFault\_FaultMessage"/>
1080. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRoleMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_MetadataExceptionStateFault\_FaultMessage"/>
1081. </wsdl:operation>
1082. <wsdl:operation name="GetThrottlingRules">
1083. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_InputMessage"/>
1084. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesResponse" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_OutputMessage"/>
1085. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_AccessDeniedExceptionFault\_FaultMessage"/>
1086. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_ArgumentExceptionFault\_FaultMessage"/>
1087. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_ArgumentNullExceptionFault\_FaultMessage"/>
1088. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetThrottlingRules\_BdcExceptionStateFault\_FaultMessage"/>
1089. </wsdl:operation>
1090. <wsdl:operation name="AddThrottlingRule">
1091. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRule" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_InputMessage"/>
1092. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleResponse" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage"/>
1093. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_AccessDeniedExceptionFault\_FaultMessage"/>
1094. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_ArgumentExceptionFault\_FaultMessage"/>
1095. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_ArgumentNullExceptionFault\_FaultMessage"/>
1096. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddThrottlingRule\_BdcExceptionStateFault\_FaultMessage"/>
1097. </wsdl:operation>
1098. <wsdl:operation name="RemoveThrottlingRule">
1099. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_InputMessage"/>
1100. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleResponse" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_OutputMessage"/>
1101. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_AccessDeniedExceptionFault\_FaultMessage"/>
1102. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_ArgumentExceptionFault\_FaultMessage"/>
1103. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_ArgumentNullExceptionFault\_FaultMessage"/>
1104. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_RemoveThrottlingRule\_BdcExceptionStateFault\_FaultMessage"/>
1105. </wsdl:operation>
1106. <wsdl:operation name="GetAssociationGroupById">
1107. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage"/>
1108. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage"/>
1109. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentExceptionFault\_FaultMessage"/>
1110. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentNullExceptionFault\_FaultMessage"/>
1111. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1112. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_BdcExceptionStateFault\_FaultMessage"/>
1113. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_InvalidOperationExceptionFault\_FaultMessage"/>
1114. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupById\_MetadataExceptionStateFault\_FaultMessage"/>
1115. </wsdl:operation>
1116. <wsdl:operation name="GetAssociationGroupsForEntity">
1117. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage"/>
1118. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage"/>
1119. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentExceptionFault\_FaultMessage"/>
1120. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentNullExceptionFault\_FaultMessage"/>
1121. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1122. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_BdcExceptionStateFault\_FaultMessage"/>
1123. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InvalidOperationExceptionFault\_FaultMessage"/>
1124. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_MetadataExceptionStateFault\_FaultMessage"/>
1125. </wsdl:operation>
1126. <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
1127. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage"/>
1128. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage"/>
1129. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentExceptionFault\_FaultMessage"/>
1130. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage"/>
1131. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1132. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_BdcExceptionStateFault\_FaultMessage"/>
1133. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage"/>
1134. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_MetadataExceptionStateFault\_FaultMessage"/>
1135. </wsdl:operation>
1136. <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
1137. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage"/>
1138. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage"/>
1139. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentExceptionFault\_FaultMessage"/>
1140. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage"/>
1141. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1142. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_BdcExceptionStateFault\_FaultMessage"/>
1143. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage"/>
1144. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_MetadataExceptionStateFault\_FaultMessage"/>
1145. </wsdl:operation>
1146. <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
1147. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage"/>
1148. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage"/>
1149. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentExceptionFault\_FaultMessage"/>
1150. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentNullExceptionFault\_FaultMessage"/>
1151. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1152. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_BdcExceptionStateFault\_FaultMessage"/>
1153. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage"/>
1154. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_MetadataExceptionStateFault\_FaultMessage"/>
1155. </wsdl:operation>
1156. <wsdl:operation name="GetXmlSchemaForView">
1157. <wsdl:input wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage"/>
1158. <wsdl:output wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage"/>
1159. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentExceptionFault\_FaultMessage"/>
1160. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentNullExceptionFault\_FaultMessage"/>
1161. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_ArgumentOutOfRangeExceptionFault\_FaultMessage"/>
1162. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_BdcExceptionStateFault\_FaultMessage"/>
1163. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault" name="InvalidOperationExceptionFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InvalidOperationExceptionFault\_FaultMessage"/>
1164. <wsdl:fault wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault" message="tns:BusinessDataCatalogSharedService\_GetXmlSchemaForView\_MetadataExceptionStateFault\_FaultMessage"/>
1165. </wsdl:operation>
1166. </wsdl:portType>
1167. <wsdl:binding name="DefaultBinding\_BusinessDataCatalogSharedService" type="tns:BusinessDataCatalogSharedService">
1168. <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
1169. <wsdl:operation name="GetServiceApplicationId">
1170. <soap:operation soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId" style="document"/>
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1183. <wsdl:output>
1184. <soap:body use="literal"/>
1185. </wsdl:output>
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1189. <wsdl:fault name="BdcExceptionStateFault">
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1192. <wsdl:fault name="InvalidOperationExceptionFault">
1193. <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
1194. </wsdl:fault>
1195. <wsdl:fault name="MetadataExceptionStateFault">
1196. <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
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1198. </wsdl:operation>
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1204. <wsdl:output>
1205. <soap:body use="literal"/>
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1225. <wsdl:fault name="MetadataExceptionStateFault">
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1229. <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
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1237. <wsdl:output>
1238. <soap:body use="literal"/>
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1264. </wsdl:operation>
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1297. <wsdl:output>
1298. <soap:body use="literal"/>
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1345. </wsdl:operation>
1346. <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
1347. <soap:operation soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesForMetadataObjectStruct" style="document"/>
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1393. <wsdl:fault name="InvalidOperationExceptionFault">
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1404. </wsdl:input>
1405. <wsdl:output>
1406. <soap:body use="literal"/>
1407. </wsdl:output>
1408. <wsdl:fault name="ArgumentExceptionFault">
1409. <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
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1424. <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
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1426. </wsdl:operation>
1427. <wsdl:operation name="ClearLocalizedNames">
1428. <soap:operation soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames" style="document"/>
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1432. <wsdl:output>
1433. <soap:body use="literal"/>
1434. </wsdl:output>
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1443. </wsdl:fault>
1444. <wsdl:fault name="BdcExceptionStateFault">
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1447. <wsdl:fault name="InvalidOperationExceptionFault">
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1450. <wsdl:fault name="MetadataExceptionStateFault">
1451. <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
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1453. </wsdl:operation>
1454. <wsdl:operation name="RemoveLocalizedName">
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2786. <wsdl:operation name="GetEntitiesForAssociationAndRole">
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3791. <wsdl:operation name="GetLevelForTypeDescriptor">
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3794. <soap:body use="literal"/>
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3818. <wsdl:operation name="TypeDescriptorCreate">
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4269. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_ArgumentNullExceptionFault\_FaultMessage">
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4275. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_BdcExceptionStateFault\_FaultMessage">
4276. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:BdcExceptionState"/>
4277. </wsdl:message>
4278. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_InputMessage">
4279. <wsdl:part name="parameters" element="tns:Activate"/>
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4281. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_InvalidOperationExceptionFault\_FaultMessage">
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4283. </wsdl:message>
4284. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_MetadataExceptionStateFault\_FaultMessage">
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4288. <wsdl:part name="parameters" element="tns:ActivateResponse"/>
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4290. <wsdl:message name="BusinessDataCatalogSharedService\_Activate\_PackageFormatExceptionStateFault\_FaultMessage">
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4293. <wsdl:message name="BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_ArgumentExceptionFault\_FaultMessage">
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4306. <wsdl:part name="parameters" element="tns:AddAssociationReferenceToAssociationGroup"/>
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4308. <wsdl:message name="BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InvalidOperationExceptionFault\_FaultMessage">
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4314. <wsdl:message name="BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage">
4315. <wsdl:part name="parameters" element="tns:AddAssociationReferenceToAssociationGroupResponse"/>
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4317. <wsdl:message name="BusinessDataCatalogSharedService\_AddEntityToModel\_ArgumentExceptionFault\_FaultMessage">
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4338. <wsdl:message name="BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage">
4339. <wsdl:part name="parameters" element="tns:AddEntityToModelResponse"/>
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4356. <wsdl:message name="BusinessDataCatalogSharedService\_AddThrottlingRule\_OutputMessage">
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4386. <wsdl:message name="BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_ArgumentExceptionFault\_FaultMessage">
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4405. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentException"/>
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4425. <wsdl:message name="BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage">
4426. <wsdl:part name="parameters" element="tns:ClearLocalizedNamesResponse"/>
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4449. <wsdl:message name="BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage">
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4472. </wsdl:message>
4473. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage">
4474. <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenResponse"/>
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4497. <wsdl:message name="BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage">
4498. <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSettingResponse"/>
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4546. <wsdl:part name="parameters" element="tns:DeactivateResponse"/>
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4572. <wsdl:message name="BusinessDataCatalogSharedService\_Delete\_OutputMessage">
4573. <wsdl:part name="parameters" element="tns:DeleteResponse"/>
4574. </wsdl:message>
4575. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_ArgumentExceptionFault\_FaultMessage">
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4596. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage">
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4668. <wsdl:message name="BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage">
4669. <wsdl:part name="parameters" element="tns:DeleteProxyAssemblyForLobSystemResponse"/>
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4683. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_InputMessage">
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4692. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage">
4693. <wsdl:part name="parameters" element="tns:EntityCreateResponse"/>
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4695. <wsdl:message name="BusinessDataCatalogSharedService\_EntityCreate\_PackageFormatExceptionStateFault\_FaultMessage">
4696. <wsdl:part xmlns:q9="Microsoft.SharePoint.BusinessData" name="detail" element="q9:PackageFormatExceptionState"/>
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4713. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_InvalidOperationExceptionFault\_FaultMessage">
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4719. <wsdl:message name="BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage">
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4725. <wsdl:message name="BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_ArgumentExceptionFault\_FaultMessage">
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4747. <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystemResponse"/>
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4842. <wsdl:message name="BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage">
4843. <wsdl:part name="parameters" element="tns:GetActionParametersForActionResponse"/>
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4845. <wsdl:message name="BusinessDataCatalogSharedService\_GetActionsForEntity\_ArgumentExceptionFault\_FaultMessage">
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4854. <wsdl:message name="BusinessDataCatalogSharedService\_GetActionsForEntity\_BdcExceptionStateFault\_FaultMessage">
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4867. <wsdl:part name="parameters" element="tns:GetActionsForEntityResponse"/>
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6312. <wsdl:message name="BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage">
6313. <wsdl:part name="parameters" element="tns:GetTypeDescriptorsForFilterDescriptorResponse"/>
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6537. <wsdl:message name="BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_PackageFormatExceptionStateFault\_FaultMessage">
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6594. <wsdl:message name="BusinessDataCatalogSharedService\_ModelReadXml\_ArgumentExceptionFault\_FaultMessage">
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6877. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:InvalidOperationException"/>
6878. </wsdl:message>
6879. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_MetadataExceptionStateFault\_FaultMessage">
6880. <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail" element="q4:MetadataException"/>
6881. </wsdl:message>
6882. <wsdl:message name="BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage">
6883. <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemIdResponse"/>
6884. </wsdl:message>
6885. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentExceptionFault\_FaultMessage">
6886. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentException"/>
6887. </wsdl:message>
6888. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentNullExceptionFault\_FaultMessage">
6889. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentNullException"/>
6890. </wsdl:message>
6891. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6892. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentOutOfRangeException"/>
6893. </wsdl:message>
6894. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_BdcExceptionStateFault\_FaultMessage">
6895. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:BdcExceptionState"/>
6896. </wsdl:message>
6897. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage">
6898. <wsdl:part name="parameters" element="tns:TypeDescriptorCreate"/>
6899. </wsdl:message>
6900. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InvalidOperationExceptionFault\_FaultMessage">
6901. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:InvalidOperationException"/>
6902. </wsdl:message>
6903. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_MetadataExceptionStateFault\_FaultMessage">
6904. <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail" element="q4:MetadataException"/>
6905. </wsdl:message>
6906. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage">
6907. <wsdl:part name="parameters" element="tns:TypeDescriptorCreateResponse"/>
6908. </wsdl:message>
6909. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentExceptionFault\_FaultMessage">
6910. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentException"/>
6911. </wsdl:message>
6912. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentNullExceptionFault\_FaultMessage">
6913. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentNullException"/>
6914. </wsdl:message>
6915. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6916. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentOutOfRangeException"/>
6917. </wsdl:message>
6918. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_BdcExceptionStateFault\_FaultMessage">
6919. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:BdcExceptionState"/>
6920. </wsdl:message>
6921. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage">
6922. <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXml"/>
6923. </wsdl:message>
6924. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InvalidOperationExceptionFault\_FaultMessage">
6925. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:InvalidOperationException"/>
6926. </wsdl:message>
6927. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_MetadataExceptionStateFault\_FaultMessage">
6928. <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail" element="q4:MetadataException"/>
6929. </wsdl:message>
6930. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage">
6931. <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXmlResponse"/>
6932. </wsdl:message>
6933. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_PackageFormatExceptionStateFault\_FaultMessage">
6934. <wsdl:part xmlns:q9="Microsoft.SharePoint.BusinessData" name="detail" element="q9:PackageFormatExceptionState"/>
6935. </wsdl:message>
6936. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentExceptionFault\_FaultMessage">
6937. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentException"/>
6938. </wsdl:message>
6939. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentNullExceptionFault\_FaultMessage">
6940. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentNullException"/>
6941. </wsdl:message>
6942. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6943. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentOutOfRangeException"/>
6944. </wsdl:message>
6945. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_BdcExceptionStateFault\_FaultMessage">
6946. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:BdcExceptionState"/>
6947. </wsdl:message>
6948. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage">
6949. <wsdl:part name="parameters" element="tns:TypeDescriptorReadXml"/>
6950. </wsdl:message>
6951. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InvalidOperationExceptionFault\_FaultMessage">
6952. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:InvalidOperationException"/>
6953. </wsdl:message>
6954. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_MetadataExceptionStateFault\_FaultMessage">
6955. <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail" element="q4:MetadataException"/>
6956. </wsdl:message>
6957. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage">
6958. <wsdl:part name="parameters" element="tns:TypeDescriptorReadXmlResponse"/>
6959. </wsdl:message>
6960. <wsdl:message name="BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_PackageFormatExceptionStateFault\_FaultMessage">
6961. <wsdl:part xmlns:q9="Microsoft.SharePoint.BusinessData" name="detail" element="q9:PackageFormatExceptionState"/>
6962. </wsdl:message>
6963. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_ArgumentExceptionFault\_FaultMessage">
6964. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentException"/>
6965. </wsdl:message>
6966. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_ArgumentNullExceptionFault\_FaultMessage">
6967. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentNullException"/>
6968. </wsdl:message>
6969. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6970. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentOutOfRangeException"/>
6971. </wsdl:message>
6972. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_BdcExceptionStateFault\_FaultMessage">
6973. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:BdcExceptionState"/>
6974. </wsdl:message>
6975. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_InputMessage">
6976. <wsdl:part name="parameters" element="tns:Update"/>
6977. </wsdl:message>
6978. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_InvalidOperationExceptionFault\_FaultMessage">
6979. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:InvalidOperationException"/>
6980. </wsdl:message>
6981. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_MetadataExceptionStateFault\_FaultMessage">
6982. <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail" element="q4:MetadataException"/>
6983. </wsdl:message>
6984. <wsdl:message name="BusinessDataCatalogSharedService\_Update\_OutputMessage">
6985. <wsdl:part name="parameters" element="tns:UpdateResponse"/>
6986. </wsdl:message>
6987. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_AccessDeniedExceptionFault\_FaultMessage">
6988. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:AccessDeniedException"/>
6989. </wsdl:message>
6990. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentExceptionFault\_FaultMessage">
6991. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentException"/>
6992. </wsdl:message>
6993. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentNullExceptionFault\_FaultMessage">
6994. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentNullException"/>
6995. </wsdl:message>
6996. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_ArgumentOutOfRangeExceptionFault\_FaultMessage">
6997. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:ArgumentOutOfRangeException"/>
6998. </wsdl:message>
6999. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_BdcExceptionStateFault\_FaultMessage">
7000. <wsdl:part xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" name="detail" element="q2:BdcExceptionState"/>
7001. </wsdl:message>
7002. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage">
7003. <wsdl:part name="parameters" element="tns:WriteSlicedXml"/>
7004. </wsdl:message>
7005. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_InvalidOperationExceptionFault\_FaultMessage">
7006. <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail" element="q1:InvalidOperationException"/>
7007. </wsdl:message>
7008. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_MetadataExceptionStateFault\_FaultMessage">
7009. <wsdl:part xmlns:q4="Microsoft.BusinessData.SharePoint" name="detail" element="q4:MetadataException"/>
7010. </wsdl:message>
7011. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage">
7012. <wsdl:part name="parameters" element="tns:WriteSlicedXmlResponse"/>
7013. </wsdl:message>
7014. <wsdl:message name="BusinessDataCatalogSharedService\_WriteSlicedXml\_PackageFormatExceptionStateFault\_FaultMessage">
7015. <wsdl:part xmlns:q9="Microsoft.SharePoint.BusinessData" name="detail" element="q9:PackageFormatExceptionState"/>
7016. </wsdl:message>
7017. </wsdl:definitions>

# Appendix B: Full XML Schema

| Schema name | Prefix | Section |
| --- | --- | --- |
| http://schemas.datacontract.org/2004/07  /Microsoft.BusinessData.Infrastructure | q2 | [7.1](#Section_d3745a4d84e642f4a0f0639b918a4d5f) |
| http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel | tns1 | [7.2](#Section_485a69a009554e2188bd9865fef7fcdd) |
| http://www.microsoft.com/Office/2009/BusinessDataCatalog | tns | [7.3](#Section_a29c3662c5eb4c6c9ca129bc211a60bf) |
| http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime | tns2 | [7.4](#Section_dc89b4b5a8b24a308af3e1e6614c00f9) |
| Microsoft.BusinessData.SharePoint | q4 | [7.5](#Section_6be487fbff754f2c8f4c2d32df10abdb) |
| http://schemas.datacontract.org/2004/07  /Microsoft.BusinessData.SystemSpecific | tns3 | [7.6](#Section_798b07a495c044b3ada14c1eeaa7e668) |
| http://schemas.datacontract.org/2004/07  /Microsoft.SharePoint.BusinessData.MetadataModel.Constants | tns4 | [7.7](#Section_3a22419c3a6343a691b610c7aef0a37b) |
| Microsoft.SharePoint.BusinessData | q9 | [7.8](#Section_1ea384c97ae04ca8a152f9d790d10aa7) |
| http://schemas.microsoft.com/2003/10/Serialization/Arrays | q12 | [7.9](#Section_cfc6ec95fd094843b291f03f187713a6) |
| http://schemas.microsoft.com/2003/10/Serialization/ | ser | [7.10](#Section_c935be5834d44e39b725a56ef3a0efb4) |
| http://schemas.datacontract.org/2004/07/System | q1 | [7.11](#Section_1b1bf1ebc4c0488b9f9cfdd2c15811e4) |

For ease of implementation, the following sections provide the full XML schema for this protocol.

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:complexType name="AccessDeniedException">
4. <xs:complexContent mixed="false">
5. <xs:extension base="q2:BdcException"/>
6. </xs:complexContent>
7. </xs:complexType>
8. <xs:element name="AccessDeniedException" nillable="true" type="q2:AccessDeniedException"/>
9. <xs:complexType name="BdcException">
10. <xs:complexContent mixed="false">
11. <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System" base="q1:Exception"/>
12. </xs:complexContent>
13. </xs:complexType>
14. <xs:element name="BdcException" nillable="true" type="q2:BdcException"/>
15. <xs:complexType name="BdcExceptionState">
16. <xs:sequence>
17. <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true" type="xs:string"/>
18. <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
21. </xs:sequence>
22. </xs:complexType>
23. <xs:element name="BdcExceptionState" nillable="true" type="q2:BdcExceptionState"/>
24. <xs:complexType name="AccessDeniedExceptionState">
25. <xs:complexContent mixed="false">
26. <xs:extension base="q2:BdcExceptionState">
27. <xs:sequence>
28. <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
29. <xs:element minOccurs="0" name="SecurableObjectName" nillable="true" type="xs:string"/>
30. <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true" type="xs:string"/>
31. </xs:sequence>
32. </xs:extension>
33. </xs:complexContent>
34. </xs:complexType>
35. <xs:element name="AccessDeniedExceptionState" nillable="true" type="q2:AccessDeniedExceptionState"/>
36. <xs:simpleType name="BdcRights">
37. <xs:list>
38. <xs:simpleType>
39. <xs:restriction base="xs:string">
40. <xs:enumeration value="None"/>
41. <xs:enumeration value="Execute"/>
42. <xs:enumeration value="Edit"/>
43. <xs:enumeration value="SetPermissions"/>
44. <xs:enumeration value="UseInBusinessDataInLists"/>
45. <xs:enumeration value="SelectableInClients"/>
46. </xs:restriction>
47. </xs:simpleType>
48. </xs:list>
49. </xs:simpleType>
50. <xs:element name="BdcRights" nillable="true" type="q2:BdcRights"/>
51. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
52. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
53. </xs:schema>

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <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">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:simpleType name="TypeDescriptorFlags">
5. <xs:list>
6. <xs:simpleType>
7. <xs:restriction base="xs:string">
8. <xs:enumeration value="None"/>
9. <xs:enumeration value="CreatorField"/>
10. <xs:enumeration value="UpdaterField"/>
11. <xs:enumeration value="PreUpdaterField"/>
12. <xs:enumeration value="IsCollection"/>
13. <xs:enumeration value="ReadOnly"/>
14. <xs:enumeration value="Significant"/>
15. <xs:enumeration value="IsSortInput"/>
16. </xs:restriction>
17. </xs:simpleType>
18. </xs:list>
19. </xs:simpleType>
20. <xs:element name="TypeDescriptorFlags" nillable="true" type="tns1:TypeDescriptorFlags"/>
21. <xs:simpleType name="FilterType">
22. <xs:restriction base="xs:string">
23. <xs:enumeration value="Comparison"/>
24. <xs:enumeration value="LastId"/>
25. <xs:enumeration value="Limit"/>
26. <xs:enumeration value="PageNumber"/>
27. <xs:enumeration value="Password"/>
28. <xs:enumeration value="SsoTicket"/>
29. <xs:enumeration value="Timestamp"/>
30. <xs:enumeration value="UserContext"/>
31. <xs:enumeration value="Username"/>
32. <xs:enumeration value="UserProfile"/>
33. <xs:enumeration value="Wildcard"/>
34. <xs:enumeration value="Input"/>
35. <xs:enumeration value="Output"/>
36. <xs:enumeration value="InputOutput"/>
37. <xs:enumeration value="Batching"/>
38. <xs:enumeration value="BatchingTermination"/>
39. <xs:enumeration value="UserCulture"/>
40. <xs:enumeration value="ActivityId"/>
41. <xs:enumeration value="Sorting"/>
42. </xs:restriction>
43. </xs:simpleType>
44. <xs:element name="FilterType" nillable="true" type="tns1:FilterType"/>
45. <xs:simpleType name="DirectionType">
46. <xs:restriction base="xs:string">
47. <xs:enumeration value="In"/>
48. <xs:enumeration value="Out"/>
49. <xs:enumeration value="InOut"/>
50. <xs:enumeration value="Return"/>
51. </xs:restriction>
52. </xs:simpleType>
53. <xs:element name="DirectionType" nillable="true" type="tns1:DirectionType"/>
54. <xs:simpleType name="MethodInstanceType">
55. <xs:restriction base="xs:string">
56. <xs:enumeration value="Finder"/>
57. <xs:enumeration value="SpecificFinder"/>
58. <xs:enumeration value="GenericInvoker"/>
59. <xs:enumeration value="IdEnumerator"/>
60. <xs:enumeration value="Scalar"/>
61. <xs:enumeration value="AccessChecker"/>
62. <xs:enumeration value="Creator"/>
63. <xs:enumeration value="Updater"/>
64. <xs:enumeration value="Deleter"/>
65. <xs:enumeration value="ChangedIdEnumerator"/>
66. <xs:enumeration value="DeletedIdEnumerator"/>
67. <xs:enumeration value="AssociationNavigator"/>
68. <xs:enumeration value="Associator"/>
69. <xs:enumeration value="Disassociator"/>
70. <xs:enumeration value="StreamAccessor"/>
71. <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
72. <xs:enumeration value="BulkSpecificFinder"/>
73. <xs:enumeration value="BulkAssociatedIdEnumerator"/>
74. <xs:enumeration value="BulkAssociationNavigator"/>
75. <xs:enumeration value="BulkIdEnumerator"/>
76. <xs:enumeration value="EventSubscriber"/>
77. <xs:enumeration value="EventUnsubscriber"/>
78. </xs:restriction>
79. </xs:simpleType>
80. <xs:element name="MethodInstanceType" nillable="true" type="tns1:MethodInstanceType"/>
81. <xs:simpleType name="SystemType">
82. <xs:restriction base="xs:string">
83. <xs:enumeration value="Database"/>
84. <xs:enumeration value="WebService"/>
85. <xs:enumeration value="Custom"/>
86. <xs:enumeration value="Wcf"/>
87. <xs:enumeration value="DotNetAssembly"/>
88. <xs:enumeration value="OData"/>
89. </xs:restriction>
90. </xs:simpleType>
91. <xs:element name="SystemType" nillable="true" type="tns1:SystemType"/>
92. </xs:schema>

## http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema elementFormDefault="qualified" targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:element name="GetServiceApplicationId">
4. <xs:complexType>
5. <xs:sequence/>
6. </xs:complexType>
7. </xs:element>
8. <xs:element name="GetServiceApplicationIdResponse">
9. <xs:complexType>
10. <xs:sequence>
11. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
12. </xs:sequence>
13. </xs:complexType>
14. </xs:element>
15. <xs:element name="GetAllPartitionIds">
16. <xs:complexType>
17. <xs:sequence/>
18. </xs:complexType>
19. </xs:element>
20. <xs:element name="GetAllPartitionIdsResponse">
21. <xs:complexType>
22. <xs:sequence>
23. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q12:ArrayOfguid"/>
24. </xs:sequence>
25. </xs:complexType>
26. </xs:element>
27. <xs:element name="ReadSlicedXml">
28. <xs:complexType>
29. <xs:sequence>
30. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
31. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
32. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentStruct" nillable="true" type="q9:MetadataObjectStruct"/>
33. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q9:MetadataObjectStruct"/>
34. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
35. </xs:sequence>
36. </xs:complexType>
37. </xs:element>
38. <xs:element name="ReadSlicedXmlResponse">
39. <xs:complexType>
40. <xs:sequence>
41. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
42. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="readStruct" nillable="true" type="q9:MetadataObjectStruct"/>
43. </xs:sequence>
44. </xs:complexType>
45. </xs:element>
46. <xs:element name="WriteSlicedXml">
47. <xs:complexType>
48. <xs:sequence>
49. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="metadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
50. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
51. </xs:sequence>
52. </xs:complexType>
53. </xs:element>
54. <xs:element name="WriteSlicedXmlResponse">
55. <xs:complexType>
56. <xs:sequence>
57. <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true" type="xs:string"/>
58. </xs:sequence>
59. </xs:complexType>
60. </xs:element>
61. <xs:element name="HaveRights">
62. <xs:complexType>
63. <xs:sequence>
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1433. <xs:element name="GetTypeDescriptorsForFilterDescriptorResponse">
1434. <xs:complexType>
1435. <xs:sequence>
1436. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
1437. </xs:sequence>
1438. </xs:complexType>
1439. </xs:element>
1440. <xs:element name="GetDefaultValuesForTypeDescriptor">
1441. <xs:complexType>
1442. <xs:sequence>
1443. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
1444. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1445. </xs:sequence>
1446. </xs:complexType>
1447. </xs:element>
1448. <xs:element name="GetDefaultValuesForTypeDescriptorResponse">
1449. <xs:complexType>
1450. <xs:sequence>
1451. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetDefaultValuesForTypeDescriptorResult" nillable="true" type="q9:ArrayOfDefaultValueStruct"/>
1452. </xs:sequence>
1453. </xs:complexType>
1454. </xs:element>
1455. <xs:element name="SetDefaultValuesForTypeDescriptor">
1456. <xs:complexType>
1457. <xs:sequence>
1458. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="defaultValueStruct" nillable="true" type="q9:DefaultValueStruct"/>
1459. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1460. </xs:sequence>
1461. </xs:complexType>
1462. </xs:element>
1463. <xs:element name="SetDefaultValuesForTypeDescriptorResponse">
1464. <xs:complexType>
1465. <xs:sequence/>
1466. </xs:complexType>
1467. </xs:element>
1468. <xs:element name="DeleteDefaultValueForTypeDescriptor">
1469. <xs:complexType>
1470. <xs:sequence>
1471. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
1472. <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
1473. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1474. </xs:sequence>
1475. </xs:complexType>
1476. </xs:element>
1477. <xs:element name="DeleteDefaultValueForTypeDescriptorResponse">
1478. <xs:complexType>
1479. <xs:sequence/>
1480. </xs:complexType>
1481. </xs:element>
1482. <xs:element name="GetLevelForTypeDescriptor">
1483. <xs:complexType>
1484. <xs:sequence>
1485. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="typeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
1486. </xs:sequence>
1487. </xs:complexType>
1488. </xs:element>
1489. <xs:element name="GetLevelForTypeDescriptorResponse">
1490. <xs:complexType>
1491. <xs:sequence>
1492. <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult" type="xs:unsignedInt"/>
1493. </xs:sequence>
1494. </xs:complexType>
1495. </xs:element>
1496. <xs:element name="TypeDescriptorCreate">
1497. <xs:complexType>
1498. <xs:sequence>
1499. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="rawValues" nillable="true" type="q9:TypeDescriptorStruct"/>
1500. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
1501. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
1502. </xs:sequence>
1503. </xs:complexType>
1504. </xs:element>
1505. <xs:element name="TypeDescriptorCreateResponse">
1506. <xs:complexType>
1507. <xs:sequence>
1508. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorCreateResult" nillable="true" type="q9:TypeDescriptorStruct"/>
1509. </xs:sequence>
1510. </xs:complexType>
1511. </xs:element>
1512. <xs:element name="TypeDescriptorMergeXml">
1513. <xs:complexType>
1514. <xs:sequence>
1515. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
1516. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packgeContents" type="q9:PackageContents"/>
1517. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
1518. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
1519. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
1520. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
1521. </xs:sequence>
1522. </xs:complexType>
1523. </xs:element>
1524. <xs:element name="TypeDescriptorMergeXmlResponse">
1525. <xs:complexType>
1526. <xs:sequence>
1527. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorMergeXmlResult" nillable="true" type="q9:TypeDescriptorStruct"/>
1528. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
1529. </xs:sequence>
1530. </xs:complexType>
1531. </xs:element>
1532. <xs:element name="TypeDescriptorReadXml">
1533. <xs:complexType>
1534. <xs:sequence>
1535. <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
1536. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="packageContents" type="q9:PackageContents"/>
1537. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parameterStruct" nillable="true" type="q9:ParameterStruct"/>
1538. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="parentTypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
1539. <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
1540. </xs:sequence>
1541. </xs:complexType>
1542. </xs:element>
1543. <xs:element name="TypeDescriptorReadXmlResponse">
1544. <xs:complexType>
1545. <xs:sequence>
1546. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="TypeDescriptorReadXmlResult" nillable="true" type="q9:TypeDescriptorStruct"/>
1547. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="errors" nillable="true" type="q12:ArrayOfstring"/>
1548. </xs:sequence>
1549. </xs:complexType>
1550. </xs:element>
1551. <xs:element name="GetAssociationById">
1552. <xs:complexType>
1553. <xs:sequence>
1554. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
1555. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
1556. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1557. </xs:sequence>
1558. </xs:complexType>
1559. </xs:element>
1560. <xs:element name="GetAssociationByIdResponse">
1561. <xs:complexType>
1562. <xs:sequence>
1563. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationByIdResult" nillable="true" type="q9:AssociationStruct"/>
1564. </xs:sequence>
1565. </xs:complexType>
1566. </xs:element>
1567. <xs:element name="GetAssociationsForEntityAndRole">
1568. <xs:complexType>
1569. <xs:sequence>
1570. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
1571. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
1572. <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
1573. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1574. </xs:sequence>
1575. </xs:complexType>
1576. </xs:element>
1577. <xs:element name="GetAssociationsForEntityAndRoleResponse">
1578. <xs:complexType>
1579. <xs:sequence>
1580. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForEntityAndRoleResult" nillable="true" type="q9:ArrayOfAssociationStruct"/>
1581. </xs:sequence>
1582. </xs:complexType>
1583. </xs:element>
1584. <xs:element name="GetAssociationsForDataClass">
1585. <xs:complexType>
1586. <xs:sequence>
1587. <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
1588. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1589. </xs:sequence>
1590. </xs:complexType>
1591. </xs:element>
1592. <xs:element name="GetAssociationsForDataClassResponse">
1593. <xs:complexType>
1594. <xs:sequence>
1595. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForDataClassResult" nillable="true" type="q9:ArrayOfAssociationStruct"/>
1596. </xs:sequence>
1597. </xs:complexType>
1598. </xs:element>
1599. <xs:element name="GetAssociationsForMethod">
1600. <xs:complexType>
1601. <xs:sequence>
1602. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
1603. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1604. </xs:sequence>
1605. </xs:complexType>
1606. </xs:element>
1607. <xs:element name="GetAssociationsForMethodResponse">
1608. <xs:complexType>
1609. <xs:sequence>
1610. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationsForMethodResult" nillable="true" type="q9:ArrayOfAssociationStruct"/>
1611. </xs:sequence>
1612. </xs:complexType>
1613. </xs:element>
1614. <xs:element name="GetAssociationMembersInRole">
1615. <xs:complexType>
1616. <xs:sequence>
1617. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
1618. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
1619. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1620. </xs:sequence>
1621. </xs:complexType>
1622. </xs:element>
1623. <xs:element name="GetAssociationMembersInRoleResponse">
1624. <xs:complexType>
1625. <xs:sequence>
1626. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationMembersInRoleResult" nillable="true" type="q9:ArrayOfAssociationMemberStruct"/>
1627. </xs:sequence>
1628. </xs:complexType>
1629. </xs:element>
1630. <xs:element name="GetThrottlingRules">
1631. <xs:complexType>
1632. <xs:sequence/>
1633. </xs:complexType>
1634. </xs:element>
1635. <xs:element name="GetThrottlingRulesResponse">
1636. <xs:complexType>
1637. <xs:sequence>
1638. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetThrottlingRulesResult" nillable="true" type="q9:ArrayOfSafetyNetStruct"/>
1639. </xs:sequence>
1640. </xs:complexType>
1641. </xs:element>
1642. <xs:element name="AddThrottlingRule">
1643. <xs:complexType>
1644. <xs:sequence>
1645. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="safetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
1646. </xs:sequence>
1647. </xs:complexType>
1648. </xs:element>
1649. <xs:element name="AddThrottlingRuleResponse">
1650. <xs:complexType>
1651. <xs:sequence/>
1652. </xs:complexType>
1653. </xs:element>
1654. <xs:element name="RemoveThrottlingRule">
1655. <xs:complexType>
1656. <xs:sequence>
1657. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="safetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
1658. </xs:sequence>
1659. </xs:complexType>
1660. </xs:element>
1661. <xs:element name="RemoveThrottlingRuleResponse">
1662. <xs:complexType>
1663. <xs:sequence/>
1664. </xs:complexType>
1665. </xs:element>
1666. <xs:element name="GetAssociationGroupById">
1667. <xs:complexType>
1668. <xs:sequence>
1669. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
1670. <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
1671. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1672. </xs:sequence>
1673. </xs:complexType>
1674. </xs:element>
1675. <xs:element name="GetAssociationGroupByIdResponse">
1676. <xs:complexType>
1677. <xs:sequence>
1678. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationGroupByIdResult" nillable="true" type="q9:AssociationGroupStruct"/>
1679. </xs:sequence>
1680. </xs:complexType>
1681. </xs:element>
1682. <xs:element name="GetAssociationGroupsForEntity">
1683. <xs:complexType>
1684. <xs:sequence>
1685. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
1686. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1687. </xs:sequence>
1688. </xs:complexType>
1689. </xs:element>
1690. <xs:element name="GetAssociationGroupsForEntityResponse">
1691. <xs:complexType>
1692. <xs:sequence>
1693. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationGroupsForEntityResult" nillable="true" type="q9:ArrayOfAssociationGroupStruct"/>
1694. </xs:sequence>
1695. </xs:complexType>
1696. </xs:element>
1697. <xs:element name="GetAssociationReferencesForAssociationGroup">
1698. <xs:complexType>
1699. <xs:sequence>
1700. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
1701. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1702. </xs:sequence>
1703. </xs:complexType>
1704. </xs:element>
1705. <xs:element name="GetAssociationReferencesForAssociationGroupResponse">
1706. <xs:complexType>
1707. <xs:sequence>
1708. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="GetAssociationReferencesForAssociationGroupResult" nillable="true" type="q9:ArrayOfAssociationReferenceStruct"/>
1709. </xs:sequence>
1710. </xs:complexType>
1711. </xs:element>
1712. <xs:element name="AddAssociationReferenceToAssociationGroup">
1713. <xs:complexType>
1714. <xs:sequence>
1715. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationGroupStruct" nillable="true" type="q9:AssociationGroupStruct"/>
1716. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
1717. </xs:sequence>
1718. </xs:complexType>
1719. </xs:element>
1720. <xs:element name="AddAssociationReferenceToAssociationGroupResponse">
1721. <xs:complexType>
1722. <xs:sequence>
1723. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="AddAssociationReferenceToAssociationGroupResult" nillable="true" type="q9:AssociationGroupStruct"/>
1724. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
1725. </xs:sequence>
1726. </xs:complexType>
1727. </xs:element>
1728. <xs:element name="DeleteAssociationReferenceFromAssociationGroup">
1729. <xs:complexType>
1730. <xs:sequence>
1731. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="associationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
1732. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="partitionId" type="ser:guid"/>
1733. </xs:sequence>
1734. </xs:complexType>
1735. </xs:element>
1736. <xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
1737. <xs:complexType>
1738. <xs:sequence/>
1739. </xs:complexType>
1740. </xs:element>
1741. <xs:element name="GetXmlSchemaForView">
1742. <xs:complexType>
1743. <xs:sequence>
1744. <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="0" name="methodInstanceStruct" nillable="true" type="q9:MethodInstanceStruct"/>
1745. </xs:sequence>
1746. </xs:complexType>
1747. </xs:element>
1748. <xs:element name="GetXmlSchemaForViewResponse">
1749. <xs:complexType>
1750. <xs:sequence>
1751. <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true" type="xs:string"/>
1752. </xs:sequence>
1753. </xs:complexType>
1754. </xs:element>
1755. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
1756. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
1757. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
1758. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants"/>
1759. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
1760. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
1761. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
1762. <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
1763. </xs:schema>

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <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">
3. <xs:simpleType name="CacheUsage">
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="Default"/>
6. <xs:enumeration value="Online"/>
7. <xs:enumeration value="Cached"/>
8. <xs:enumeration value="Offline"/>
9. </xs:restriction>
10. </xs:simpleType>
11. <xs:element name="CacheUsage" nillable="true" type="tns2:CacheUsage"/>
12. <xs:complexType name="ProxyGenerationResult">
13. <xs:sequence>
14. <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
15. <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
16. <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
17. </xs:sequence>
18. </xs:complexType>
19. <xs:element name="ProxyGenerationResult" nillable="true" type="tns2:ProxyGenerationResult"/>
20. </xs:schema>

## Microsoft.BusinessData.SharePoint Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q4="Microsoft.BusinessData.SharePoint" elementFormDefault="qualified" targetNamespace="Microsoft.BusinessData.SharePoint" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:complexType name="MetadataException">
4. <xs:sequence>
5. <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true" type="xs:string"/>
10. <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
11. </xs:sequence>
12. </xs:complexType>
13. <xs:element name="MetadataException" nillable="true" type="q4:MetadataException"/>
14. </xs:schema>

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:simpleType name="ThrottleScope">
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="Global"/>
6. <xs:enumeration value="Database"/>
7. <xs:enumeration value="WebService"/>
8. <xs:enumeration value="Wcf"/>
9. <xs:enumeration value="Custom"/>
10. <xs:enumeration value="OData"/>
11. </xs:restriction>
12. </xs:simpleType>
13. <xs:element name="ThrottleScope" nillable="true" type="tns3:ThrottleScope"/>
14. <xs:simpleType name="ThrottleType">
15. <xs:restriction base="xs:string">
16. <xs:enumeration value="None"/>
17. <xs:enumeration value="Items"/>
18. <xs:enumeration value="Size"/>
19. <xs:enumeration value="Connections"/>
20. <xs:enumeration value="Timeout"/>
21. <xs:enumeration value="MetadataSize"/>
22. <xs:enumeration value="ModelSize"/>
23. <xs:enumeration value="MaxNumberOfModels"/>
24. </xs:restriction>
25. </xs:simpleType>
26. <xs:element name="ThrottleType" nillable="true" type="tns3:ThrottleType"/>
27. </xs:schema>

## http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="AllLobSystemsInModel"/>
6. <xs:enumeration value="OwnedLobSystemsInModel"/>
7. <xs:enumeration value="SharedLobSystemsInModel"/>
8. </xs:restriction>
9. </xs:simpleType>
10. <xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true" type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
11. <xs:simpleType name="EntityConstants.EntitiesInModelQuery">
12. <xs:restriction base="xs:string">
13. <xs:enumeration value="AllEntitiesInModel"/>
14. <xs:enumeration value="OwnedEntitiesInModel"/>
15. <xs:enumeration value="SharedEntitiesInModel"/>
16. </xs:restriction>
17. </xs:simpleType>
18. <xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true" type="tns4:EntityConstants.EntitiesInModelQuery"/>
19. </xs:schema>

## Microsoft.SharePoint.BusinessData Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q9="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">
3. <xs:complexType name="ExceededMetadataObjectLimitExceptionState">
4. <xs:complexContent mixed="false">
5. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
6. <xs:sequence>
7. <xs:element minOccurs="0" name="Limit" type="xs:int"/>
8. </xs:sequence>
9. </xs:extension>
10. </xs:complexContent>
11. </xs:complexType>
12. <xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true" type="q9:ExceededMetadataObjectLimitExceptionState"/>
13. <xs:complexType name="InvalidMetadataObjectExceptionState">
14. <xs:complexContent mixed="false">
15. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
16. <xs:sequence>
17. <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
18. <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
19. <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true" type="xs:string"/>
20. </xs:sequence>
21. </xs:extension>
22. </xs:complexContent>
23. </xs:complexType>
24. <xs:element name="InvalidMetadataObjectExceptionState" nillable="true" type="q9:InvalidMetadataObjectExceptionState"/>
25. <xs:complexType name="ConcurrentModificationExceptionState">
26. <xs:complexContent mixed="false">
27. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
28. <xs:sequence>
29. <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
30. </xs:sequence>
31. </xs:extension>
32. </xs:complexContent>
33. </xs:complexType>
34. <xs:element name="ConcurrentModificationExceptionState" nillable="true" type="q9:ConcurrentModificationExceptionState"/>
35. <xs:complexType name="DuplicateMetadataObjectExceptionState">
36. <xs:complexContent mixed="false">
37. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
38. <xs:sequence>
39. <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true" type="xs:string"/>
40. <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true" type="xs:string"/>
41. </xs:sequence>
42. </xs:extension>
43. </xs:complexContent>
44. </xs:complexType>
45. <xs:element name="DuplicateMetadataObjectExceptionState" nillable="true" type="q9:DuplicateMetadataObjectExceptionState"/>
46. <xs:complexType name="InvalidMetadataPropertyExceptionState">
47. <xs:complexContent mixed="false">
48. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
49. <xs:sequence>
50. <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true" type="xs:string"/>
51. <xs:element minOccurs="0" name="MetadataObjectName" nillable="true" type="xs:string"/>
52. </xs:sequence>
53. </xs:extension>
54. </xs:complexContent>
55. </xs:complexType>
56. <xs:element name="InvalidMetadataPropertyExceptionState" nillable="true" type="q9:InvalidMetadataPropertyExceptionState"/>
57. <xs:complexType name="MetadataObjectNotFoundExceptionState">
58. <xs:complexContent mixed="false">
59. <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
60. <xs:sequence>
61. <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
62. </xs:sequence>
63. </xs:extension>
64. </xs:complexContent>
65. </xs:complexType>
66. <xs:element name="MetadataObjectNotFoundExceptionState" nillable="true" type="q9:MetadataObjectNotFoundExceptionState"/>
67. <xs:simpleType name="PackageContents">
68. <xs:list>
69. <xs:simpleType>
70. <xs:restriction base="xs:string">
71. <xs:enumeration value="None"/>
72. <xs:enumeration value="Model"/>
73. <xs:enumeration value="LocalizedNames"/>
74. <xs:enumeration value="Permissions"/>
75. <xs:enumeration value="Properties"/>
76. <xs:enumeration value="InlineProxies"/>
77. <xs:enumeration value="All"/>
78. </xs:restriction>
79. </xs:simpleType>
80. </xs:list>
81. </xs:simpleType>
82. <xs:element name="PackageContents" nillable="true" type="q9:PackageContents"/>
83. <xs:complexType name="MetadataObjectStruct">
84. <xs:sequence>
85. <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
86. <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
87. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
88. <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
89. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
90. </xs:sequence>
91. </xs:complexType>
92. <xs:element name="MetadataObjectStruct" nillable="true" type="q9:MetadataObjectStruct"/>
93. <xs:complexType name="TypeDescriptorStruct">
94. <xs:complexContent mixed="false">
95. <xs:extension base="q9:MetadataObjectStruct">
96. <xs:sequence>
97. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
98. <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true" type="xs:string"/>
99. <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true" type="xs:string"/>
100. <xs:element minOccurs="0" name="associationReferenceName" nillable="true" type="xs:string"/>
101. <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
102. <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
103. <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
104. <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
105. <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
106. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
107. <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
108. <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true" type="xs:string"/>
109. <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true" type="xs:string"/>
110. <xs:element minOccurs="0" name="identifierReferenceName" nillable="true" type="xs:string"/>
111. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
112. <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
113. <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
114. <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
115. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
116. </xs:sequence>
117. </xs:extension>
118. </xs:complexContent>
119. </xs:complexType>
120. <xs:element name="TypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
121. <xs:complexType name="DataClassStruct">
122. <xs:complexContent mixed="false">
123. <xs:extension base="q9:MetadataObjectStruct">
124. <xs:sequence>
125. <xs:element minOccurs="0" name="active" type="xs:boolean"/>
126. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
127. <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
128. <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
129. <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0" name="version" nillable="true" type="q1:Version"/>
130. </xs:sequence>
131. </xs:extension>
132. </xs:complexContent>
133. </xs:complexType>
134. <xs:element name="DataClassStruct" nillable="true" type="q9:DataClassStruct"/>
135. <xs:complexType name="EntityStruct">
136. <xs:complexContent mixed="false">
137. <xs:extension base="q9:DataClassStruct">
138. <xs:sequence>
139. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
140. <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
141. <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
142. </xs:sequence>
143. </xs:extension>
144. </xs:complexContent>
145. </xs:complexType>
146. <xs:element name="EntityStruct" nillable="true" type="q9:EntityStruct"/>
147. <xs:complexType name="FilterDescriptorStruct">
148. <xs:complexContent mixed="false">
149. <xs:extension base="q9:MetadataObjectStruct">
150. <xs:sequence>
151. <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
152. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="filterType" type="tns1:FilterType"/>
153. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
154. </xs:sequence>
155. </xs:extension>
156. </xs:complexContent>
157. </xs:complexType>
158. <xs:element name="FilterDescriptorStruct" nillable="true" type="q9:FilterDescriptorStruct"/>
159. <xs:complexType name="ParameterStruct">
160. <xs:complexContent mixed="false">
161. <xs:extension base="q9:MetadataObjectStruct">
162. <xs:sequence>
163. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="direction" type="tns1:DirectionType"/>
164. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
165. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
166. <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
167. </xs:sequence>
168. </xs:extension>
169. </xs:complexContent>
170. </xs:complexType>
171. <xs:element name="ParameterStruct" nillable="true" type="q9:ParameterStruct"/>
172. <xs:complexType name="ActionStruct">
173. <xs:complexContent mixed="false">
174. <xs:extension base="q9:MetadataObjectStruct">
175. <xs:sequence>
176. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
177. <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
178. <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
179. <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
180. <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
181. </xs:sequence>
182. </xs:extension>
183. </xs:complexContent>
184. </xs:complexType>
185. <xs:element name="ActionStruct" nillable="true" type="q9:ActionStruct"/>
186. <xs:complexType name="AdministrationMetadataCatalogStruct">
187. <xs:complexContent mixed="false">
188. <xs:extension base="q9:MetadataObjectStruct">
189. <xs:sequence/>
190. </xs:extension>
191. </xs:complexContent>
192. </xs:complexType>
193. <xs:element name="AdministrationMetadataCatalogStruct" nillable="true" type="q9:AdministrationMetadataCatalogStruct"/>
194. <xs:complexType name="AssociationStruct">
195. <xs:complexContent mixed="false">
196. <xs:extension base="q9:MethodInstanceStruct">
197. <xs:sequence>
198. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
199. <xs:element minOccurs="0" name="destinationEntityName" nillable="true" type="xs:string"/>
200. <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true" type="xs:string"/>
201. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNames" nillable="true" type="q12:ArrayOfstring"/>
202. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q12:ArrayOfstring"/>
203. </xs:sequence>
204. </xs:extension>
205. </xs:complexContent>
206. </xs:complexType>
207. <xs:element name="AssociationStruct" nillable="true" type="q9:AssociationStruct"/>
208. <xs:complexType name="MethodInstanceStruct">
209. <xs:complexContent mixed="false">
210. <xs:extension base="q9:MetadataObjectStruct">
211. <xs:sequence>
212. <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
213. <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
214. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
215. <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
216. </xs:sequence>
217. </xs:extension>
218. </xs:complexContent>
219. </xs:complexType>
220. <xs:element name="MethodInstanceStruct" nillable="true" type="q9:MethodInstanceStruct"/>
221. <xs:complexType name="AssociationGroupStruct">
222. <xs:complexContent mixed="false">
223. <xs:extension base="q9:MetadataObjectStruct">
224. <xs:sequence>
225. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNames" nillable="true" type="q12:ArrayOfstring"/>
226. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q12:ArrayOfstring"/>
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228. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="associationNames" nillable="true" type="q12:ArrayOfstring"/>
229. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
230. </xs:sequence>
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232. </xs:complexContent>
233. </xs:complexType>
234. <xs:element name="AssociationGroupStruct" nillable="true" type="q9:AssociationGroupStruct"/>
235. <xs:complexType name="LobSystemInstanceStruct">
236. <xs:complexContent mixed="false">
237. <xs:extension base="q9:MetadataObjectStruct">
238. <xs:sequence>
239. <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
240. </xs:sequence>
241. </xs:extension>
242. </xs:complexContent>
243. </xs:complexType>
244. <xs:element name="LobSystemInstanceStruct" nillable="true" type="q9:LobSystemInstanceStruct"/>
245. <xs:complexType name="ActionParameterStruct">
246. <xs:complexContent mixed="false">
247. <xs:extension base="q9:MetadataObjectStruct">
248. <xs:sequence>
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250. <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
251. </xs:sequence>
252. </xs:extension>
253. </xs:complexContent>
254. </xs:complexType>
255. <xs:element name="ActionParameterStruct" nillable="true" type="q9:ActionParameterStruct"/>
256. <xs:complexType name="IdentifierStruct">
257. <xs:complexContent mixed="false">
258. <xs:extension base="q9:MetadataObjectStruct">
259. <xs:sequence>
260. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
261. <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
262. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
263. </xs:sequence>
264. </xs:extension>
265. </xs:complexContent>
266. </xs:complexType>
267. <xs:element name="IdentifierStruct" nillable="true" type="q9:IdentifierStruct"/>
268. <xs:complexType name="ModelStruct">
269. <xs:complexContent mixed="false">
270. <xs:extension base="q9:MetadataObjectStruct">
271. <xs:sequence/>
272. </xs:extension>
273. </xs:complexContent>
274. </xs:complexType>
275. <xs:element name="ModelStruct" nillable="true" type="q9:ModelStruct"/>
276. <xs:complexType name="LobSystemStruct">
277. <xs:complexContent mixed="false">
278. <xs:extension base="q9:MetadataObjectStruct">
279. <xs:sequence>
280. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" minOccurs="0" name="systemType" type="tns1:SystemType"/>
281. </xs:sequence>
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283. </xs:complexContent>
284. </xs:complexType>
285. <xs:element name="LobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
286. <xs:complexType name="MethodStruct">
287. <xs:complexContent mixed="false">
288. <xs:extension base="q9:MetadataObjectStruct">
289. <xs:sequence>
290. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
291. <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
292. <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
293. </xs:sequence>
294. </xs:extension>
295. </xs:complexContent>
296. </xs:complexType>
297. <xs:element name="MethodStruct" nillable="true" type="q9:MethodStruct"/>
298. <xs:complexType name="PackageFormatExceptionState">
299. <xs:sequence>
300. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
301. <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="ParseErrors" nillable="true" type="q12:ArrayOfstring"/>
302. <xs:element xmlns:q4="Microsoft.BusinessData.SharePoint" minOccurs="0" name="SerializedInnerSystemException" nillable="true" type="q4:MetadataException"/>
303. <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
304. </xs:sequence>
305. </xs:complexType>
306. <xs:element name="PackageFormatExceptionState" nillable="true" type="q9:PackageFormatExceptionState"/>
307. <xs:complexType name="ArrayOfLocalizedNameStruct">
308. <xs:sequence>
309. <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct" nillable="true" type="q9:LocalizedNameStruct"/>
310. </xs:sequence>
311. </xs:complexType>
312. <xs:element name="ArrayOfLocalizedNameStruct" nillable="true" type="q9:ArrayOfLocalizedNameStruct"/>
313. <xs:complexType name="LocalizedNameStruct">
314. <xs:sequence>
315. <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
316. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
317. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
318. <xs:element minOccurs="0" name="vlue" nillable="true" type="xs:string"/>
319. </xs:sequence>
320. </xs:complexType>
321. <xs:element name="LocalizedNameStruct" nillable="true" type="q9:LocalizedNameStruct"/>
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323. <xs:sequence>
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325. </xs:sequence>
326. </xs:complexType>
327. <xs:element name="ArrayOfPropertyStruct" nillable="true" type="q9:ArrayOfPropertyStruct"/>
328. <xs:complexType name="PropertyStruct">
329. <xs:complexContent mixed="false">
330. <xs:extension base="q9:ComplexValueStruct">
331. <xs:sequence>
332. <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
333. <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
334. <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
335. <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
336. </xs:sequence>
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338. </xs:complexContent>
339. </xs:complexType>
340. <xs:element name="PropertyStruct" nillable="true" type="q9:PropertyStruct"/>
341. <xs:complexType name="ComplexValueStruct">
342. <xs:sequence>
343. <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
344. <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true" type="xs:anyType"/>
345. <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName" nillable="true" type="xs:string"/>
346. <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true" type="xs:string"/>
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349. <xs:element name="ComplexValueStruct" nillable="true" type="q9:ComplexValueStruct"/>
350. <xs:complexType name="DefaultValueStruct">
351. <xs:complexContent mixed="false">
352. <xs:extension base="q9:ComplexValueStruct">
353. <xs:sequence>
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355. <xs:element minOccurs="0" name="methodInstanceName" nillable="true" type="xs:string"/>
356. <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
357. </xs:sequence>
358. </xs:extension>
359. </xs:complexContent>
360. </xs:complexType>
361. <xs:element name="DefaultValueStruct" nillable="true" type="q9:DefaultValueStruct"/>
362. <xs:complexType name="ArrayOfAccessControlEntryStruct">
363. <xs:sequence>
364. <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct" nillable="true" type="q9:AccessControlEntryStruct"/>
365. </xs:sequence>
366. </xs:complexType>
367. <xs:element name="ArrayOfAccessControlEntryStruct" nillable="true" type="q9:ArrayOfAccessControlEntryStruct"/>
368. <xs:complexType name="AccessControlEntryStruct">
369. <xs:sequence>
370. <xs:element minOccurs="0" name="principalBinaryForm" nillable="true" type="xs:base64Binary"/>
371. <xs:element minOccurs="0" name="principalDisplayName" nillable="true" type="xs:string"/>
372. <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
373. <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
374. </xs:sequence>
375. </xs:complexType>
376. <xs:element name="AccessControlEntryStruct" nillable="true" type="q9:AccessControlEntryStruct"/>
377. <xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
378. <xs:sequence>
379. <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct" nillable="true" type="q9:CacheInvalidationRecordStruct"/>
380. </xs:sequence>
381. </xs:complexType>
382. <xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true" type="q9:ArrayOfCacheInvalidationRecordStruct"/>
383. <xs:complexType name="CacheInvalidationRecordStruct">
384. <xs:sequence>
385. <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
386. <xs:element minOccurs="0" name="counter" type="xs:int"/>
387. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
388. <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
389. </xs:sequence>
390. </xs:complexType>
391. <xs:element name="CacheInvalidationRecordStruct" nillable="true" type="q9:CacheInvalidationRecordStruct"/>
392. <xs:complexType name="ArrayOfModelStruct">
393. <xs:sequence>
394. <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true" type="q9:ModelStruct"/>
395. </xs:sequence>
396. </xs:complexType>
397. <xs:element name="ArrayOfModelStruct" nillable="true" type="q9:ArrayOfModelStruct"/>
398. <xs:complexType name="ArrayOfLobSystemStruct">
399. <xs:sequence>
400. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true" type="q9:LobSystemStruct"/>
401. </xs:sequence>
402. </xs:complexType>
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404. <xs:complexType name="ArrayOfLobSystemInstanceStruct">
405. <xs:sequence>
406. <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct" nillable="true" type="q9:LobSystemInstanceStruct"/>
407. </xs:sequence>
408. </xs:complexType>
409. <xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true" type="q9:ArrayOfLobSystemInstanceStruct"/>
410. <xs:complexType name="ArrayOfDataClassStruct">
411. <xs:sequence>
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413. </xs:sequence>
414. </xs:complexType>
415. <xs:element name="ArrayOfDataClassStruct" nillable="true" type="q9:ArrayOfDataClassStruct"/>
416. <xs:complexType name="ArrayOfEntityStruct">
417. <xs:sequence>
418. <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true" type="q9:EntityStruct"/>
419. </xs:sequence>
420. </xs:complexType>
421. <xs:element name="ArrayOfEntityStruct" nillable="true" type="q9:ArrayOfEntityStruct"/>
422. <xs:complexType name="ArrayOfActivationErrorRecordStruct">
423. <xs:sequence>
424. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct" nillable="true" type="q9:ActivationErrorRecordStruct"/>
425. </xs:sequence>
426. </xs:complexType>
427. <xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true" type="q9:ArrayOfActivationErrorRecordStruct"/>
428. <xs:complexType name="ActivationErrorRecordStruct">
429. <xs:sequence>
430. <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true" type="xs:string"/>
431. <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
432. <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true" type="xs:string"/>
433. <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true" type="xs:string"/>
434. <xs:element minOccurs="0" name="containingEntityName" nillable="true" type="xs:string"/>
435. <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true" type="xs:string"/>
436. <xs:element minOccurs="0" name="containingEntityVersion" nillable="true" type="xs:string"/>
437. <xs:element minOccurs="0" name="containingMethodName" nillable="true" type="xs:string"/>
438. <xs:element minOccurs="0" name="containingParameterName" nillable="true" type="xs:string"/>
439. <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
440. <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true" type="xs:string"/>
441. <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
442. <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true" type="xs:string"/>
443. <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true" type="xs:string"/>
444. <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true" type="xs:string"/>
445. <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true" type="xs:string"/>
446. <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true" type="xs:string"/>
447. <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
448. <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
449. </xs:sequence>
450. </xs:complexType>
451. <xs:element name="ActivationErrorRecordStruct" nillable="true" type="q9:ActivationErrorRecordStruct"/>
452. <xs:complexType name="ArrayOfActionStruct">
453. <xs:sequence>
454. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true" type="q9:ActionStruct"/>
455. </xs:sequence>
456. </xs:complexType>
457. <xs:element name="ArrayOfActionStruct" nillable="true" type="q9:ArrayOfActionStruct"/>
458. <xs:complexType name="ArrayOfActionParameterStruct">
459. <xs:sequence>
460. <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct" nillable="true" type="q9:ActionParameterStruct"/>
461. </xs:sequence>
462. </xs:complexType>
463. <xs:element name="ArrayOfActionParameterStruct" nillable="true" type="q9:ArrayOfActionParameterStruct"/>
464. <xs:complexType name="ArrayOfIdentifierStruct">
465. <xs:sequence>
466. <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true" type="q9:IdentifierStruct"/>
467. </xs:sequence>
468. </xs:complexType>
469. <xs:element name="ArrayOfIdentifierStruct" nillable="true" type="q9:ArrayOfIdentifierStruct"/>
470. <xs:complexType name="ArrayOfMethodStruct">
471. <xs:sequence>
472. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true" type="q9:MethodStruct"/>
473. </xs:sequence>
474. </xs:complexType>
475. <xs:element name="ArrayOfMethodStruct" nillable="true" type="q9:ArrayOfMethodStruct"/>
476. <xs:complexType name="ArrayOfFilterDescriptorStruct">
477. <xs:sequence>
478. <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct" nillable="true" type="q9:FilterDescriptorStruct"/>
479. </xs:sequence>
480. </xs:complexType>
481. <xs:element name="ArrayOfFilterDescriptorStruct" nillable="true" type="q9:ArrayOfFilterDescriptorStruct"/>
482. <xs:complexType name="ArrayOfMethodInstanceStruct">
483. <xs:sequence>
484. <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct" nillable="true" type="q9:MethodInstanceStruct"/>
485. </xs:sequence>
486. </xs:complexType>
487. <xs:element name="ArrayOfMethodInstanceStruct" nillable="true" type="q9:ArrayOfMethodInstanceStruct"/>
488. <xs:complexType name="ArrayOfParameterStruct">
489. <xs:sequence>
490. <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true" type="q9:ParameterStruct"/>
491. </xs:sequence>
492. </xs:complexType>
493. <xs:element name="ArrayOfParameterStruct" nillable="true" type="q9:ArrayOfParameterStruct"/>
494. <xs:complexType name="ArrayOfTypeDescriptorStruct">
495. <xs:sequence>
496. <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct" nillable="true" type="q9:TypeDescriptorStruct"/>
497. </xs:sequence>
498. </xs:complexType>
499. <xs:element name="ArrayOfTypeDescriptorStruct" nillable="true" type="q9:ArrayOfTypeDescriptorStruct"/>
500. <xs:complexType name="ArrayOfDefaultValueStruct">
501. <xs:sequence>
502. <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true" type="q9:DefaultValueStruct"/>
503. </xs:sequence>
504. </xs:complexType>
505. <xs:element name="ArrayOfDefaultValueStruct" nillable="true" type="q9:ArrayOfDefaultValueStruct"/>
506. <xs:complexType name="ArrayOfAssociationStruct">
507. <xs:sequence>
508. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true" type="q9:AssociationStruct"/>
509. </xs:sequence>
510. </xs:complexType>
511. <xs:element name="ArrayOfAssociationStruct" nillable="true" type="q9:ArrayOfAssociationStruct"/>
512. <xs:complexType name="ArrayOfAssociationMemberStruct">
513. <xs:sequence>
514. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct" nillable="true" type="q9:AssociationMemberStruct"/>
515. </xs:sequence>
516. </xs:complexType>
517. <xs:element name="ArrayOfAssociationMemberStruct" nillable="true" type="q9:ArrayOfAssociationMemberStruct"/>
518. <xs:complexType name="AssociationMemberStruct">
519. <xs:sequence>
520. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
521. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
522. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
523. <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
524. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
525. <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
526. </xs:sequence>
527. </xs:complexType>
528. <xs:element name="AssociationMemberStruct" nillable="true" type="q9:AssociationMemberStruct"/>
529. <xs:complexType name="ArrayOfSafetyNetStruct">
530. <xs:sequence>
531. <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
532. </xs:sequence>
533. </xs:complexType>
534. <xs:element name="ArrayOfSafetyNetStruct" nillable="true" type="q9:ArrayOfSafetyNetStruct"/>
535. <xs:complexType name="SafetyNetStruct">
536. <xs:sequence>
537. <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
538. <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
539. <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
540. <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
541. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" minOccurs="0" name="throttleScope" type="tns3:ThrottleScope"/>
542. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" minOccurs="0" name="throttleType" type="tns3:ThrottleType"/>
543. </xs:sequence>
544. </xs:complexType>
545. <xs:element name="SafetyNetStruct" nillable="true" type="q9:SafetyNetStruct"/>
546. <xs:complexType name="ArrayOfAssociationGroupStruct">
547. <xs:sequence>
548. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct" nillable="true" type="q9:AssociationGroupStruct"/>
549. </xs:sequence>
550. </xs:complexType>
551. <xs:element name="ArrayOfAssociationGroupStruct" nillable="true" type="q9:ArrayOfAssociationGroupStruct"/>
552. <xs:complexType name="ArrayOfAssociationReferenceStruct">
553. <xs:sequence>
554. <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
555. </xs:sequence>
556. </xs:complexType>
557. <xs:element name="ArrayOfAssociationReferenceStruct" nillable="true" type="q9:ArrayOfAssociationReferenceStruct"/>
558. <xs:complexType name="AssociationReferenceStruct">
559. <xs:sequence>
560. <xs:element minOccurs="0" name="\_associationName" nillable="true" type="xs:string"/>
561. <xs:element minOccurs="0" name="\_entityName" nillable="true" type="xs:string"/>
562. <xs:element minOccurs="0" name="\_entityNamespace" nillable="true" type="xs:string"/>
563. <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
564. <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
565. <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
566. <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
567. <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
568. <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
569. </xs:sequence>
570. </xs:complexType>
571. <xs:element name="AssociationReferenceStruct" nillable="true" type="q9:AssociationReferenceStruct"/>
572. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
573. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
574. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"/>
575. <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
576. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
577. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
578. <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
579. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q12="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">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:complexType name="ArrayOfguid">
5. <xs:sequence>
6. <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. <xs:element name="ArrayOfguid" nillable="true" type="q12:ArrayOfguid"/>
10. <xs:complexType name="ArrayOfstring">
11. <xs:sequence>
12. <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true" type="xs:string"/>
13. </xs:sequence>
14. </xs:complexType>
15. <xs:element name="ArrayOfstring" nillable="true" type="q12:ArrayOfstring"/>
16. <xs:complexType name="ArrayOfunsignedInt">
17. <xs:sequence>
18. <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt" type="xs:unsignedInt"/>
19. </xs:sequence>
20. </xs:complexType>
21. <xs:element name="ArrayOfunsignedInt" nillable="true" type="q12:ArrayOfunsignedInt"/>
22. <xs:complexType name="ArrayOfbase64Binary">
23. <xs:sequence>
24. <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true" type="xs:base64Binary"/>
25. </xs:sequence>
26. </xs:complexType>
27. <xs:element name="ArrayOfbase64Binary" nillable="true" type="q12:ArrayOfbase64Binary"/>
28. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/ Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <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">
3. <xs:element name="anyType" nillable="true" type="xs:anyType"/>
4. <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
5. <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
6. <xs:element name="boolean" nillable="true" type="xs:boolean"/>
7. <xs:element name="byte" nillable="true" type="xs:byte"/>
8. <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
9. <xs:element name="decimal" nillable="true" type="xs:decimal"/>
10. <xs:element name="double" nillable="true" type="xs:double"/>
11. <xs:element name="float" nillable="true" type="xs:float"/>
12. <xs:element name="int" nillable="true" type="xs:int"/>
13. <xs:element name="long" nillable="true" type="xs:long"/>
14. <xs:element name="QName" nillable="true" type="xs:QName"/>
15. <xs:element name="short" nillable="true" type="xs:short"/>
16. <xs:element name="string" nillable="true" type="xs:string"/>
17. <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
18. <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
19. <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
20. <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
21. <xs:element name="char" nillable="true" type="ser:char"/>
22. <xs:simpleType name="char">
23. <xs:restriction base="xs:int"/>
24. </xs:simpleType>
25. <xs:element name="duration" nillable="true" type="ser:duration"/>
26. <xs:simpleType name="duration">
27. <xs:restriction base="xs:duration">
28. <xs:pattern value="\-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?"/>
29. <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
30. <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
31. </xs:restriction>
32. </xs:simpleType>
33. <xs:element name="guid" nillable="true" type="ser:guid"/>
34. <xs:simpleType name="guid">
35. <xs:restriction base="xs:string">
36. <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
37. </xs:restriction>
38. </xs:simpleType>
39. <xs:attribute name="FactoryType" type="xs:QName"/>
40. <xs:attribute name="Id" type="xs:ID"/>
41. <xs:attribute name="Ref" type="xs:IDREF"/>
42. </xs:schema>

## http://schemas.datacontract.org/2004/07/System Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q1="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">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:complexType name="InvalidOperationException">
5. <xs:complexContent mixed="false">
6. <xs:extension base="q1:SystemException"/>
7. </xs:complexContent>
8. </xs:complexType>
9. <xs:element name="InvalidOperationException" nillable="true" type="q1:InvalidOperationException"/>
10. <xs:complexType name="SystemException">
11. <xs:complexContent mixed="false">
12. <xs:extension base="q1:Exception"/>
13. </xs:complexContent>
14. </xs:complexType>
15. <xs:element name="SystemException" nillable="true" type="q1:SystemException"/>
16. <xs:complexType name="Exception">
17. <xs:sequence>
18. <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"/>
19. </xs:sequence>
20. <xs:attribute ref="ser:FactoryType"/>
21. </xs:complexType>
22. <xs:element name="Exception" nillable="true" type="q1:Exception"/>
23. <xs:complexType name="Version">
24. <xs:sequence>
25. <xs:element name="\_Build" type="xs:int"/>
26. <xs:element name="\_Major" type="xs:int"/>
27. <xs:element name="\_Minor" type="xs:int"/>
28. <xs:element name="\_Revision" type="xs:int"/>
29. </xs:sequence>
30. </xs:complexType>
31. <xs:element name="Version" nillable="true" type="q1:Version"/>
32. <xs:complexType name="ArgumentException">
33. <xs:complexContent mixed="false">
34. <xs:extension base="q1:SystemException"/>
35. </xs:complexContent>
36. </xs:complexType>
37. <xs:element name="ArgumentException" nillable="true" type="q1:ArgumentException"/>
38. <xs:complexType name="ArgumentNullException">
39. <xs:complexContent mixed="false">
40. <xs:extension base="q1:ArgumentException"/>
41. </xs:complexContent>
42. </xs:complexType>
43. <xs:element name="ArgumentNullException" nillable="true" type="q1:ArgumentNullException"/>
44. <xs:complexType name="ArgumentOutOfRangeException">
45. <xs:complexContent mixed="false">
46. <xs:extension base="q1:ArgumentException"/>
47. </xs:complexContent>
48. </xs:complexType>
49. <xs:element name="ArgumentOutOfRangeException" nillable="true" type="q1:ArgumentOutOfRangeException"/>
50. </xs:schema>

# 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 SharePoint Foundation 2010
* Microsoft SharePoint Foundation 2013
* 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](#Appendix_A_Target_1): SharePoint Foundation 2010 requires that [**Business Logic Modules**](#gt_84e6a86d-dbbc-4241-a855-eb804a032656) conform to the Common Language Infrastructure (CLI), as specified in [[ECMA-335]](http://go.microsoft.com/fwlink/?LinkId=93453), and are understood by the Microsoft .NET Framework.

[<2> Section 2.2.4.4](#Appendix_A_Target_2): In SharePoint Foundation 2010, only the restriction that the **index** value be greater than or equal to zero is enforced.

[<3> Section 2.2.4.4](#Appendix_A_Target_3): In SharePoint Foundation 2010, this restriction is not enforced.

[<4> Section 2.2.4.21](#Appendix_A_Target_4): SharePoint Foundation 2010 always sets the values to zero on return.

[<5> Section 2.2.4.22](#Appendix_A_Target_5): SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the \_**associationName** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input \_**associationName**.

[<6> Section 2.2.4.22](#Appendix_A_Target_6): SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the \_**entityName** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input \_**entityName**.

[<7> Section 2.2.4.22](#Appendix_A_Target_7): SharePoint Foundation 2010 truncates this string to 255 Unicode characters if the length is more than 255 and then saves it to the server database. If the client later queries this string, the server will return the truncated string. However, the \_**entityNamespace** returned by the **AddAssociationReferenceToAssociationGroup** operation is the same as the input \_**entityNamespace**.

[<8> Section 2.2.4.41](#Appendix_A_Target_8): In SharePoint Foundation 2010, this can be other values.

[<9> Section 2.2.4.51](#Appendix_A_Target_9): SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and are understood by the .NET Framework.

[<10> Section 2.2.4.53](#Appendix_A_Target_10): In SharePoint Foundation 2010, when a new **TypeDescriptor** is created with the **MetadataObjectCreate** operation, the server always sets this element to NULL on return. **SerializedRules** can be set to a non-null value using the **Update** operation or the **MetadataObjectReadXml** operation.

[<11> Section 2.2.4.53](#Appendix_A_Target_11): The culture names used by SharePoint Foundation 2010 are as specified in [[MSDN-SharePointSDK]](http://go.microsoft.com/fwlink/?LinkID=153289&clcid=0x409).

[<12> Section 2.2.4.53](#Appendix_A_Target_12): SharePoint Foundation 2010 requires this data type to conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and to be understood by the .NET Framework.

[<13> Section 2.2.4.53](#Appendix_A_Target_13): SharePoint Foundation 2010 requires that the data type to conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<14> Section 2.2.4.53](#Appendix_A_Target_14): The SharePoint Foundation 2010 module that performs the mapping of value of the **typeName** element to data types requires the value of the **typeName** element to be in the following format expressed in ABNF, as specified in [[RFC5234]](http://go.microsoft.com/fwlink/?LinkId=123096):

1. Value = TypeName \*1(%x2C BusinessLogicModule)
2. BusinessLogicModule = FullAssemblyName / LobSystemName
3. FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C PublicKeyTokenProperty

**LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [[MS-NRTP]](file:///E:\Target\Office\Published\Books\MS-BDCWPS\%5bMS-NRTP%5d.pdf#Section_3acb31b0b8734aaf85039727ec40fbec) section [2.2.1.3](http://msdn.microsoft.com/en-us/library/f236e979-38fb-47d0-9e6f-3c24f12480ac/).

**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](http://msdn.microsoft.com/en-us/library/ece5002e-2076-49a8-9e19-ff6804a95d43/).

**LobSystemName**: The name of the **LobSystem** that contains the **TypeDescriptor**.

The occurrence of the **BusinessLogicModule** element is required by SharePoint Foundation 2010 to yield to a **LobSystemName** element if the represented data type resides in the Business Logic Module associated with the **LobSystem** that contains the **TypeDescriptor**. Otherwise, the occurrence of **BusinessLogicModule** is required by SharePoint Foundation 2010 to be a **FullAssemblyName** element. The values for the **TypeName** specified in the following table do not require a **BusinessLogicModule**.

| **Value** | **Description** |
| --- | --- |
| System.String | A string of [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) text. |
| System.Int16 | A number in the range from –32,768 through 32,767. |
| System.Int32 | A number in the range from –2,147,483,648 through 2,147,483,647. |
| System.Int64 | A number in the range from –9,223,372,036,854,775,808 through 9,223,372,036,854,775,807. |
| System.UInt16 | A number in the range from 0 through 65,535. |
| System.UInt32 | A number in the range from 0 through 4,294,967,295. |
| System.UInt64 | A number in the range from 0 through 18,446,744,073,709,551,615. |
| System.DateTime | A date and time in the range from midnight, January 1, 1 A.D. through 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds. |
| System.TimeSpan | A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds. |
| System.Single | A single-precision number in the range from –3.402823e38 through 3.402823e38. |
| System.Double | A double-precision number in the range from –1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN. |
| System.Decimal | A number in the range from –79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335. |
| System.Char | A Unicode character. |
| System.Byte | A number in the range from 0 through 255. |
| System.SByte | A number in the range from –128 through 127. |
| System.Guid | A [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). |
| System.Boolean | A bit. |
| System.Uri | A [**Uniform Resource Locator (URL)**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1). |

[<15> Section 2.2.5.7](#Appendix_A_Target_15): A Business Logic Module that conforms to the [ECMA-335] specification and is understood by the .NET Framework.

[<16> Section 3.1](#Appendix_A_Target_16): SharePoint Foundation 2010 does this for some requests from untrusted sources.

[<17> Section 3.1](#Appendix_A_Target_17): SharePoint Foundation 2010 does this for some requests from highly-trusted sources.

[<18> Section 3.1.4](#Appendix_A_Target_18): In SharePoint Foundation 2010 implementation, the protocol client specifies the last known values for these elements. The protocol server uses the specified values to construct error messages and other informational messages.

[<19> Section 3.1.4](#Appendix_A_Target_19): In SharePoint Foundation 2010, the implementation-specific maximum value is 2147483646.

[<20> Section 3.1.4](#Appendix_A_Target_20): In SharePoint Foundation 2010,when the specific **metadataObject** name or namespace field is updated, the object version is incremented by 2. When the **Entity** name or namespace is updated, the server will return an **Entity** object with the version incremented by 1, but the **Entity** object version is incremented by 2 in the server database. If the **BulkSwitchActiveOrValidate** operation is called to make an **entity** active and the specific **entity** is already active, its object version will be incremented by 2.

[<21> Section 3.1.4](#Appendix_A_Target_21): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<22> Section 3.1.4](#Appendix_A_Target_22): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<23> Section 3.1.4](#Appendix_A_Target_23): In SharePoint Foundation 2010, this operation always returns zero **TypeDescriptors**.

[<24> Section 3.1.4](#Appendix_A_Target_24): The behavior is identified by the specific implementation of the custom code that handles **LobSystem** data, and is not understood by the protocol server implementation.

[<25> Section 3.1.4](#Appendix_A_Target_25): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and are understood by the .NET Framework.

[<26> Section 3.1.4](#Appendix_A_Target_26): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystemInstance** to determine if the security principal is authorized to read the **LobSystemInstance**.

[<27> Section 3.1.4](#Appendix_A_Target_27): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<28> Section 3.1.4](#Appendix_A_Target_28): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

[<29> Section 3.1.4](#Appendix_A_Target_29): SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

[<30> Section 3.1.4](#Appendix_A_Target_30): In SharePoint Foundation 2010, if the specified **MetadataObject** is Action, the server will ignore the **entityId** specified by the client and set its value to the id of the input **parentStruct**.

[<31> Section 3.1.4](#Appendix_A_Target_31): In SharePoint Foundation 2010, if there is an error in the input XML, the server will return an error to the client, but some **MetadataObjects** that had been created before encountering the error could still exist.

[<32> Section 3.1.4](#Appendix_A_Target_32): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<33> Section 3.1.4](#Appendix_A_Target_33): SharePoint Foundation 2010 does not enforce the specified [**MetadataObject**](#gt_af8d1ae5-7903-4155-909c-5b5836d26c8c) to be a [**Model**](#gt_9f39899b-8714-4bc6-9305-0780f7c71f79) or an [**LobSystem**](#gt_2c32dc42-3385-4c34-884a-cda903379f66).

[<34> Section 3.1.4.2.2.2](#Appendix_A_Target_34): In SharePoint Foundation 2010, when the **AddAssociationReferenceToAssociationGroup** operation completes successfully, the returned **associationGroupId** element of the **associationReference** structure is the same as the returned **id** element of the **associationReference** structure. However, the **associationGroupId** element of the **associationReference** structure stored on the server is the same as the **id** element of the **AssociationGroup** that contains this **AssociationReference** structure.

[<35> Section 3.1.4.5.2.1](#Appendix_A_Target_35): In SharePoint Foundation 2010, when the **BulkSwitchActiveOrValidate** operation cannot be performed because the value of the validate element is set to "false" and the protocol server encountered reference errors (as specified in section 3.1.4.5.3.2) when performing this operation, the active fields of the **Entities** returned by the **BulkSwitchActiveOrValidate** operation are updated to TRUE, but the active fields of the **Entities** stored on the server are not changed by this operation.

[<36> Section 3.1.4.5.3.2](#Appendix_A_Target_36): SharePoint Foundation 2010 does not return this error for this condition.

[<37> Section 3.1.4.5.3.2](#Appendix_A_Target_37): In this case, SharePoint Foundation 2010 does not return an error.

[<38> Section 3.1.4.5.3.2](#Appendix_A_Target_38): In this case, SharePoint Foundation 2010 does not return an error.

[<39> Section 3.1.4.13](#Appendix_A_Target_39): In SharePoint Foundation 2010, the **Method** will not be deleted when this operation does not execute successfully and the server throws a **ConcurrentModificationExceptionState** exception, but the child objects of the specified **Method** could have been deleted before the error occurred.

[<40> Section 3.1.4.13](#Appendix_A_Target_40): In SharePoint Foundation 2010, the **Parameter** will not be deleted when this operation does not succeed. But the root **TypeDescriptor** of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, will be deleted.

[<41> Section 3.1.4.14](#Appendix_A_Target_41): In this case, SharePoint Foundation 2010 returns a [**MetadataException (from namespace Microsoft.BusinessData.SharePoint)**](#Section_7bf7858592cf4d2f994ecbde4fdedd38)serialized as specified in section [2.2.4](#Section_3ed0600adff64d9686ea81606880a030).

[<42> Section 3.1.4.14](#Appendix_A_Target_42): In this case, SharePoint Foundation 2010 returns a **MetadataException (from namespace Microsoft.BusinessData.SharePoint)** serialized as specified in section 2.2.4.

[<43> Section 3.1.4.16](#Appendix_A_Target_43): In SharePoint Foundation 2010, the **Method** will not be deleted if this operation cannot execute successfully and the server throws a **ConcurrentModificationExceptionState** exception. But the **MethodInstances**, **FilterDescriptors**, and **Parameters** that are child objects of the specified **Method**, as well as all their child objects, could have already been deleted.

[<44> Section 3.1.4.16](#Appendix_A_Target_44): In SharePoint Foundation 2010, the **Parameter** will not be deleted if this operation cannot execute successfully and the server throws a **ConcurrentModificationExceptionState** exception. But the root **TypeDescriptor** of the specified **Parameter**, as well as all the child objects of the root **TypeDescriptor**, will be deleted.

[<45> Section 3.1.4.17](#Appendix_A_Target_45): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<46> Section 3.1.4.17](#Appendix_A_Target_46): In SharePoint Foundation 2010, the server does not return any error complex type for this condition, but instead returns NULL.

[<47> Section 3.1.4.17.2.1](#Appendix_A_Target_47): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<48> Section 3.1.4.19](#Appendix_A_Target_48): In SharePoint Foundation 2010, a [**security principal**](#gt_f3ef2572-95cf-4c5c-b3c9-551fd648f409) is authorized to export a **MetadataObject** if the same security principal is authorized to modify the same **MetadataObject**.

[<49> Section 3.1.4.20](#Appendix_A_Target_49): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<50> Section 3.1.4.24](#Appendix_A_Target_50): SharePoint Foundation 2010 does not raise an error in this case.

[<51> Section 3.1.4.24](#Appendix_A_Target_51): SharePoint Foundation 2010 does not raise an error in this case.

[<52> Section 3.1.4.25](#Appendix_A_Target_52): SharePoint Foundation 2010 does not raise an error in this case.

[<53> Section 3.1.4.26](#Appendix_A_Target_53): SharePoint Foundation 2010 does not raise an error in this case.

[<54> Section 3.1.4.27](#Appendix_A_Target_54): SharePoint Foundation 2010 does not raise an error in this case.

[<55> Section 3.1.4.33](#Appendix_A_Target_55): SharePoint Foundation 2010 does not return a fault in this case.

[<56> Section 3.1.4.33](#Appendix_A_Target_56): SharePoint Foundation 2010 does not return a fault in this case.

[<57> Section 3.1.4.35](#Appendix_A_Target_57): SharePoint Foundation 2010 does not raise an error in this case.

[<58> Section 3.1.4.36](#Appendix_A_Target_58): SharePoint Foundation 2010 does not raise an error in this case.

[<59> Section 3.1.4.38](#Appendix_A_Target_59): SharePoint Foundation 2010 does not raise an error in this case.

[<60> Section 3.1.4.40](#Appendix_A_Target_60): SharePoint Foundation 2010 does not raise an error in this case.

[<61> Section 3.1.4.41](#Appendix_A_Target_61): In SharePoint Foundation 2010, this operation always returns zero **TypeDescriptors**.

[<62> Section 3.1.4.41](#Appendix_A_Target_62): SharePoint Foundation 2010 does not raise an error in this case.

[<63> Section 3.1.4.41](#Appendix_A_Target_63): SharePoint Foundation 2010 does not raise an error in this case.

[<64> Section 3.1.4.43](#Appendix_A_Target_64): SharePoint Foundation 2010 does not return a fault in this case.

[<65> Section 3.1.4.45](#Appendix_A_Target_65): SharePoint Foundation 2010 does not raise an error in this case.

[<66> Section 3.1.4.45](#Appendix_A_Target_66): SharePoint Foundation 2010 does not raise an error in this case.

[<67> Section 3.1.4.46](#Appendix_A_Target_67): SharePoint Foundation 2010 does not return a fault in this case.

[<68> Section 3.1.4.48](#Appendix_A_Target_68): SharePoint Foundation 2010 does not return a fault in this case.

[<69> Section 3.1.4.50](#Appendix_A_Target_69): SharePoint Foundation 2010 does not raise an error in this case.

[<70> Section 3.1.4.50](#Appendix_A_Target_70): SharePoint Foundation 2010 does not raise an error in this case.

[<71> Section 3.1.4.51](#Appendix_A_Target_71): SharePoint Foundation 2010 does not return a fault when the value of the role parameter is not zero ("0") or "1".

[<72> Section 3.1.4.51](#Appendix_A_Target_72): SharePoint Foundation 2010 returns a **BdcExceptionState** (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>) error complex type in this case.

[<73> Section 3.1.4.56](#Appendix_A_Target_73): SharePoint Foundation 2010 does not return a fault in this case.

[<74> Section 3.1.4.56](#Appendix_A_Target_74): SharePoint Foundation 2010 does not return a fault in this case.

[<75> Section 3.1.4.58](#Appendix_A_Target_75): SharePoint Foundation 2010 does not return a fault in this case.

[<76> Section 3.1.4.58](#Appendix_A_Target_76): SharePoint Foundation 2010 does not return a fault in this case.

[<77> Section 3.1.4.60](#Appendix_A_Target_77): SharePoint Foundation 2010 does not raise an error in this case.

[<78> Section 3.1.4.60](#Appendix_A_Target_78): SharePoint Foundation 2010 does not raise an error in this case.

[<79> Section 3.1.4.61](#Appendix_A_Target_79): The behavior is identified by the specific implementation of the custom code that handles **LobSystem** data, and is not understood by the protocol server implementation.

[<80> Section 3.1.4.61](#Appendix_A_Target_80): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

[<81> Section 3.1.4.63](#Appendix_A_Target_81): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

[<82> Section 3.1.4.64](#Appendix_A_Target_82): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and are understood by the .NET Framework.

[<83> Section 3.1.4.64](#Appendix_A_Target_83): SharePoint Foundation 2010 does not raise an error in this case.

[<84> Section 3.1.4.64](#Appendix_A_Target_84): SharePoint Foundation 2010 does not raise an error in this case.

[<85> Section 3.1.4.64.2.2](#Appendix_A_Target_85): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<86> Section 3.1.4.66](#Appendix_A_Target_86): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystemInstance** to determine if the security principal is authorized to read the **LobSystemInstance**.

[<87> Section 3.1.4.66](#Appendix_A_Target_87): SharePoint Foundation 2010 does not return a fault in this case.

[<88> Section 3.1.4.66](#Appendix_A_Target_88): SharePoint Foundation 2010 does not return a fault in this case.

[<89> Section 3.1.4.67](#Appendix_A_Target_89): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<90> Section 3.1.4.67](#Appendix_A_Target_90): SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

[<91> Section 3.1.4.67.2.2](#Appendix_A_Target_91): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<92> Section 3.1.4.69](#Appendix_A_Target_92): SharePoint Foundation 2010 checks the edit rights of the security principal on the **LobSystem** to determine if the security principal is authorized to read the **LobSystem**.

[<93> Section 3.1.4.69](#Appendix_A_Target_93): SharePoint Foundation 2010 does not return a fault in this case.

[<94> Section 3.1.4.69](#Appendix_A_Target_94): SharePoint Foundation 2010 does not return a fault in this case.

[<95> Section 3.1.4.72](#Appendix_A_Target_95): SharePoint Foundation 2010 does not raise an error in this case.

[<96> Section 3.1.4.73](#Appendix_A_Target_96): SharePoint Foundation 2010 does not raise an error in this case.

[<97> Section 3.1.4.74](#Appendix_A_Target_97): SharePoint Foundation 2010 does not return a fault in this case.

[<98> Section 3.1.4.74](#Appendix_A_Target_98): SharePoint Foundation 2010 does not return a fault in this case.

[<99> Section 3.1.4.77](#Appendix_A_Target_99): SharePoint Foundation 2010 does not return a fault in this case.

[<100> Section 3.1.4.80](#Appendix_A_Target_100): SharePoint Foundation 2010 does not return a fault in this case.

[<101> Section 3.1.4.80](#Appendix_A_Target_101): SharePoint Foundation 2010 does not return a fault in this case.

[<102> Section 3.1.4.83.2.2](#Appendix_A_Target_102): SharePoint Foundation 2010 requires the identifier to be in the following format as expressed in [**ABNF**](#gt_24ddbbb4-b79e-4419-96ec-0fdd229c9ebf), as specified in [RFC5234]:

1. Identifier = TypeName (%x2C FullAssemblyName)
2. FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C PublicKeyTokenProperty

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

**TypeName**: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework. The format is specified in [MS-NRTP] section 2.2.1.2. The specified type implements operations that are described in [MSDN-SharePointSDK].

[<103> Section 3.1.4.86](#Appendix_A_Target_103): SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

[<104> Section 3.1.4.94.2.2](#Appendix_A_Target_104): SharePoint Foundation 2010 always sets this element to false regardless of whether or not the specified **Parameter** contains a **ReturnTypeDescriptor**.

[<105> Section 3.1.4.95](#Appendix_A_Target_105): In SharePoint Foundation 2010, if the specified **MetadataObject** is Action, the server will ignore the **entityId** specified by the client and set its value to the id of the input **parentStruct**.

[<106> Section 3.1.4.95.2.2](#Appendix_A_Target_106): In SharePoint Foundation 2010, if the **MetadataObject** specified in the request is a **MetadataCatalog** and the client specifies a name for it, the server will ignore the name set by the client and set the new created **MetadataCatalog** name with the input **partitionId**. If the **MetadataObject** specified in the request is associated with the empty **DestinationEntityName** and empty **DestinationEntityNamespace** set by the client, the server will create the association using "," as the **DestinationEntityName** value and **DestinationEntityNamespace** value. If the **MetadataObject** specified in the request is associated with the empty **DestinationEntityName** and non-empty **DestinationEntityNamespace** set by the client, the server will create the association using "," as the **DestinationEntityName** value and will use the associated input **DestinationEntityNamespace** value appended with a "," as the **DestinationEntityNamespace** value.

[<107> Section 3.1.4.97](#Appendix_A_Target_107): In SharePoint Foundation 2010, if there is an error in the input XML, the server will return an error to the client, but some **MetadataObjects** that had been created before encountering the error could still exist.

[<108> Section 3.1.4.97](#Appendix_A_Target_108): SharePoint Foundation 2010 returns a fault containing the [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) complex type in this case.

[<109> Section 3.1.4.99](#Appendix_A_Target_109): SharePoint Foundation 2010 returns a fault containing the [**InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)**](#Section_670bfd88424347e9bdebf5b5d0665b58) complex type in this case.

[<110> Section 3.1.4.99.2.1](#Appendix_A_Target_110): In SharePoint Foundation 2010, if this element is set to TRUE, the protocol server does not remove the **Entity** references from the **Model** and does not create **Entity** references in the **Model** for all **Entities** in the specified **MetadataModel**.

[<111> Section 3.1.4.100.2.1](#Appendix_A_Target_111): SharePoint Foundation 2010 does not validate this constraint.

[<112> Section 3.1.4.100.2.1](#Appendix_A_Target_112): SharePoint Foundation 2010 does not enforce this to be **MetadataCatalog**.

[<113> Section 3.1.4.110](#Appendix_A_Target_113): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<114> Section 3.1.4.110.2.1](#Appendix_A_Target_114): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [ECMA-335], and is understood by the .NET Framework.

[<115> Section 3.1.4.114](#Appendix_A_Target_115): SharePoint Foundation 2010 does not return a fault in this case.

[<116> Section 3.1.4.114](#Appendix_A_Target_116): SharePoint Foundation 2010 does not return a fault in this case.

[<117> Section 3.1.4.114](#Appendix_A_Target_117): SharePoint Foundation 2010 does not raise an error in this case.

[<118> Section 3.1.4.114](#Appendix_A_Target_118): In SharePoint Foundation 2010, if the **ordinalNumber** attribute of the specified **Parameter** is the same as the **ordinalNumber** attribute of another **Parameter** contained by the **Method** containing the specified **Parameter**, the server throws the **BdcExceptionState** error, and the **ordinalNumber** attribute of the specified **Parameter** is updated to the same as the **ordinalNumber** attribute in the request message. After the operation completes, there are two **Parameters** with the same **ordinalNumber** attribute.

[<119> Section 3.1.4.114](#Appendix_A_Target_119): In SharePoint Foundation 2010, if the **isDefault** attribute of the specified **MethodInstance** is set to "false"(and the previous **isDefault** attribute of all **MethodInstances** that have the same value for the **MethodInstanceType** attribute in the containing **DataClass** is "false") the protocol server sets the **IsDefault** attribute of one **MethodInstance** with the same value for **MethodInstanceType** in the containing **DataClass** to "true". The algorithm used by the server to determine which **MethodInstance** to alter is based on an implementation-specific algorithm, and is therefore nondeterministic.

[<120> Section 3.1.4.115](#Appendix_A_Target_120): SharePoint Foundation 2010 does not enforce the specified MetadataObject to be a Model or an LobSystem.

[<121> Section 3.1.4.115.2.1](#Appendix_A_Target_121): SharePoint Foundation 2010 does not validate this constraint.

# 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:

* **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](mailto:dochelp@microsoft.com).

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
| --- | --- | --- | --- |
| [2.2.4](#Section_3ed0600adff64d9686ea81606880a030) Complex Types | Removed SystemException | N | Content removed. |

# Index

A

Abstract data model

[server](#section_cdd56ed1e9c24d739e996f9101408f1b) 91

[AccessControlEntryStruct complex type](#section_7b39ab059ce743d2af1b46f151d47ceb) 53

[AccessDeniedException complex type](#section_444ffe2a97c94bbca09c9efd26a65572) 53

[AccessDeniedExceptionState complex type](#section_6d5fb12e20c5465194404eb32b85edb5) 53

[ActionParameterStruct complex type](#section_6bfe0b79db7a452d84319707a149c34a) 54

[ActionStruct complex type](#section_6b538d33475a4aa4a746d6b2e546f42c) 54

[Activating an Entity example](#section_48701cee45da4ed9b1222dc0c068366c) 543

[Adding localized names for MetadataObjects example](#section_8af5475e290745c99928883ebe41da94) 548

[AdministrationMetadataCatalogStruct complex type](#section_ec058e3ab7214938bbb239dddf2b3e7a) 55

[Applicability](#section_d2fbf77ecb8440348dfe8a3b9cb8f3dc) 46

[ArgumentException complex type](#section_ea4be32080bc4e6d9e205570c7a9fcf3) 55

[ArgumentNullException complex type](#section_edc27edfebf84a4dbfecd154dd1089f6) 56

[ArgumentOutOfRangeException complex type](#section_ed65b16c202247d7bd26e383acf8aad9) 56

[ArrayOfAccessControlEntryStruct complex type](#section_6140d16651064a1d899af99d5b9be170) 56

[ArrayOfAssociationStruct complex type](#section_cff02b3424e04097adac6d2506ac1a29) 56

[ArrayOfEntityStruct complex type](#section_cb76c938ce324962aaf1ac8e7e6a3d55) 57

[ArrayOfLobSystemStruct complex type](#section_2726ea75d2b94f5e863376a0cec68b1e) 57

[ArrayOfLocalizedNameStruct complex type](#section_202917b3b00345d9a3e8bcd548e7517a) 57

[ArrayOfMethodInstanceStruct complex type](#section_78ef7d2568e348c3a82ae1a35988f9f5) 58

[ArrayOfModelStruct complex type](#section_484efab84d1146b1b4c0b0b088278bb1) 58

[ArrayOfPropertyStruct complex type](#section_1e2e0d3302454743827c3ed0d5e1947a) 58

[ArrayOfstring complex type](#section_c12632713dcd49a7a181d696b6a1d353) 58

[ArrayOfTypeDescriptorStruct complex type](#section_695a0250fed44b22a3ff364899c7b3a2) 59

[ArrayOfunsignedInt complex type](#section_36df3d1d4d104a34a791d49be9808bda) 59

[AssociationGroupStruct complex type](#section_ef29b678c6474f4cb72b432f149d466b) 59

[AssociationReferenceStruct complex type](#section_4a958e69122d401da5611b7345872782) 60

[AssociationStruct complex type](#section_7ae77d0de1ae42fea94cfc116bb3a4fb) 61

[Attribute groups](#section_8b0f16c2692842989e1530d4ba6bf2da) 90

[Attributes](#section_528e91ad07674fcebcfac5404113d859) 90

B

[BdcException complex type](#section_76f1163a7f65413d88f8ae27fb1cd366) 62

[BdcExceptionState complex type](#section_c4f5546eef0f49d78fd11127fc063258) 62

C

[CacheUsage simple type](#section_41b3118a2d1f46bea4b50b43eec5c20b) 81

[Capability negotiation](#section_a5ed04a3c6db49469f7dd1e0a673ec2f) 46

[Change tracking](#section_6acbde3dcc3645129d0a147a9be5ad30) 807

[char simple type](#section_e107d154ef144db1b60e2fd54f3296b7) 82

[Complex types](#section_3ed0600adff64d9686ea81606880a030) 48

[AccessControlEntryStruct](#section_7b39ab059ce743d2af1b46f151d47ceb) 53

[AccessDeniedException](#section_444ffe2a97c94bbca09c9efd26a65572) 53

[AccessDeniedExceptionState](#section_6d5fb12e20c5465194404eb32b85edb5) 53

[ActionParameterStruct](#section_6bfe0b79db7a452d84319707a149c34a) 54

[ActionStruct](#section_6b538d33475a4aa4a746d6b2e546f42c) 54

[AdministrationMetadataCatalogStruct](#section_ec058e3ab7214938bbb239dddf2b3e7a) 55

[ArgumentException](#section_ea4be32080bc4e6d9e205570c7a9fcf3) 55

[ArgumentNullException](#section_edc27edfebf84a4dbfecd154dd1089f6) 56

[ArgumentOutOfRangeException](#section_ed65b16c202247d7bd26e383acf8aad9) 56

[ArrayOfAccessControlEntryStruct](#section_6140d16651064a1d899af99d5b9be170) 56

[ArrayOfAssociationStruct](#section_cff02b3424e04097adac6d2506ac1a29) 56

[ArrayOfEntityStruct](#section_cb76c938ce324962aaf1ac8e7e6a3d55) 57

[ArrayOfLobSystemStruct](#section_2726ea75d2b94f5e863376a0cec68b1e) 57

[ArrayOfLocalizedNameStruct](#section_202917b3b00345d9a3e8bcd548e7517a) 57

[ArrayOfMethodInstanceStruct](#section_78ef7d2568e348c3a82ae1a35988f9f5) 58

[ArrayOfModelStruct](#section_484efab84d1146b1b4c0b0b088278bb1) 58

[ArrayOfPropertyStruct](#section_1e2e0d3302454743827c3ed0d5e1947a) 58

[ArrayOfstring](#section_c12632713dcd49a7a181d696b6a1d353) 58

[ArrayOfTypeDescriptorStruct](#section_695a0250fed44b22a3ff364899c7b3a2) 59

[ArrayOfunsignedInt](#section_36df3d1d4d104a34a791d49be9808bda) 59

[AssociationGroupStruct](#section_ef29b678c6474f4cb72b432f149d466b) 59

[AssociationReferenceStruct](#section_4a958e69122d401da5611b7345872782) 60

[AssociationStruct](#section_7ae77d0de1ae42fea94cfc116bb3a4fb) 61

[BdcException](#section_76f1163a7f65413d88f8ae27fb1cd366) 62

[BdcExceptionState](#section_c4f5546eef0f49d78fd11127fc063258) 62

[ComplexValueStruct](#section_fb5ed41f3afc481c94e462938d372451) 63

[ConcurrentModificationExceptionState](#section_4e91414dabba4cdaa4d60439558bd6d9) 63

[DataClassStruct](#section_9b04dbbdce754009bc35b9789754b5c9) 64

[DefaultValueStruct](#section_d5082a874d684d58a0e3a53ef9e3c048) 64

[DuplicateMetadataObjectExceptionState](#section_6b084d33f77d4a0eb75bd158786cf4b0) 65

[EntityStruct](#section_eeae11a17afa4b18b79176164a878d4f) 65

[ExceededMetadataObjectLimitExceptionState](#section_cb57c9eef6034081ad62b529308b212b) 66

[Exception](#section_ef9fb399e42d412d8b7d3ab676871575) 66

[FilterDescriptorStruct](#section_64561aa518ca411fb4266b4de0648cbe) 66

[IdentifierStruct](#section_494682fcdfe84f619eaac9e5f038970e) 67

[InvalidMetadataObjectExceptionState](#section_52890afb981b43e4aa71ad178fc176c5) 68

[InvalidMetadataPropertyExceptionState](#section_0160fbe51de542349f26b5aada23d3c1) 68

[InvalidOperationException](#section_670bfd88424347e9bdebf5b5d0665b58) 69

[LobSystemInstanceStruct](#section_037fc8923e3943a9a10e4859a046282b) 69

[LobSystemStruct](#section_7bd3cf4928584d13bbbcc78b4dd63d65) 70

[LocalizedNameStruct](#section_4e5929f1ae3145bb8694c171e6043ded) 70

[MetadataException](#section_7bf7858592cf4d2f994ecbde4fdedd38) 70

[MetadataObjectNotFoundExceptionState](#section_101975b92f674db99107f1996954ced1) 71

[MetadataObjectStruct](#section_5590ae82073a4fd8b86850a1d86b541a) 71

[MethodInstanceStruct](#section_f9b4d6eb8883484b8b83178ded5c6a28) 72

[MethodStruct](#section_6663c94bcde5436f80041d49d50924bb) 73

[ModelStruct](#section_9a098ecaf4f545338408315a2befe185) 73

[PackageFormatExceptionState](#section_f0fdcc5c1d374f96b8d75bb73c60e21a) 74

[ParameterStruct](#section_3bed25aaba15428d91608248805f10cc) 74

[PropertyStruct](#section_cc41c5d322344d68b5ee8d5d1ed4589e) 75

[ProxyGenerationResult](#section_e19270c9c8204bfea175a5e752f6349c) 75

[SafetyNetStruct](#section_18f0bc2916174c6fbb8c3a6a9f532cfb) 76

[TypeDescriptorStruct](#section_75907338aa6340c5af5e0f4ddcface13) 77

[Version](#section_4f636fa7b9b44f789f1e2dea87b2d92d) 80

[ComplexValueStruct complex type](#section_fb5ed41f3afc481c94e462938d372451) 63

[ConcurrentModificationExceptionState complex type](#section_4e91414dabba4cdaa4d60439558bd6d9) 63

[Creating an Entity example](#section_31349b4a98c3491b8844bde66f486d25) 541

[Creating an LobSystem example](#section_0d0d8c7b245444c48d7b23766ce3ce61) 537

[Creating properties for MetadataObjects example](#section_e7fab3743e264e00ad1c58aeb400afe3) 547

D

Data model - abstract

[server](#section_cdd56ed1e9c24d739e996f9101408f1b) 91

[DataClassStruct complex type](#section_9b04dbbdce754009bc35b9789754b5c9) 64

[DefaultValueStruct complex type](#section_d5082a874d684d58a0e3a53ef9e3c048) 64

[Deleting an Entity example](#section_25da16a3c1f2407c9ec4bda0470d7142) 552

[DirectionType simple type](#section_36765400568d4814af481364fee9837c) 82

[DuplicateMetadataObjectExceptionState complex type](#section_6b084d33f77d4a0eb75bd158786cf4b0) 65

E

[EntityStruct complex type](#section_eeae11a17afa4b18b79176164a878d4f) 65

Events

[local - server](#section_90601ddb9f4b4e10abc8262a5b8ffd27) 536

[timer - server](#section_ab906dc0082148cfafd415e20bd3c2d6) 536

Examples

[activating an Entity](#section_48701cee45da4ed9b1222dc0c068366c) 543

[adding localized names for MetadataObjects](#section_8af5475e290745c99928883ebe41da94) 548

[creating an Entity](#section_31349b4a98c3491b8844bde66f486d25) 541

[Creating an LobSystem](#section_0d0d8c7b245444c48d7b23766ce3ce61) 537

[creating properties for MetadataObjects](#section_e7fab3743e264e00ad1c58aeb400afe3) 547

[deleting an Entity](#section_25da16a3c1f2407c9ec4bda0470d7142) 552

[overview](#section_077c32d123544cc192374345ad3c7ecc) 537

[reading an Entity](#section_999b69c3b0f64679bbe68ed49b253df3) 545

[reading the security information of a MetadataObject](#section_c5478581e3c74e6f95c7227de2d12eaa) 540

[setting the security information of a MetadataObject](#section_49ee3975e9924ebcb85ba5bc4114b686) 538

[updating an Entity](#section_bd1a8bbab8a74aadbbb480f3e280d7df) 550

[ExceededMetadataObjectLimitExceptionState complex type](#section_cb57c9eef6034081ad62b529308b212b) 66

[Exception complex type](#section_ef9fb399e42d412d8b7d3ab676871575) 66

F

[Fields - vendor-extensible](#section_c9087805930c43bf881457c1e1cdaf1a) 46

[FilterDescriptorStruct complex type](#section_64561aa518ca411fb4266b4de0648cbe) 66

[FilterType simple type](#section_4514e84895584942b535030600d4eea5) 82

[Full WSDL](#section_b8cb7d7ad8b749b1b9a3c42eb4e83357) 555

[Full XML schema](#section_3bd4d44c9ef6438c9155b51454b36686) 750

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema](#section_d3745a4d84e642f4a0f0639b918a4d5f) 750

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema](#section_485a69a009554e2188bd9865fef7fcdd) 751

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema](#section_dc89b4b5a8b24a308af3e1e6614c00f9) 782

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific Schema](#section_798b07a495c044b3ada14c1eeaa7e668) 783

[http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants Schema](#section_3a22419c3a6343a691b610c7aef0a37b) 784

[http://schemas.datacontract.org/2004/07/System Schema](#section_1b1bf1ebc4c0488b9f9cfdd2c15811e4) 796

[http://schemas.microsoft.com/2003/10/Serialization/ Schema](#section_c935be5834d44e39b725a56ef3a0efb4) 795

[http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](#section_cfc6ec95fd094843b291f03f187713a6) 795

[http://www.microsoft.com/Office/2009/BusinessDataCatalog Schema](#section_a29c3662c5eb4c6c9ca129bc211a60bf) 753

[Microsoft.BusinessData.SharePoint Schema](#section_6be487fbff754f2c8f4c2d32df10abdb) 783

[Microsoft.SharePoint.BusinessData Schema](#section_1ea384c97ae04ca8a152f9d790d10aa7) 784

G

[Glossary](#section_c10e13de48884e45ac979d3b2e61aef9) 37

[Groups](#section_399044f3aaa8411f8d786ef1dfe27a20) 90

I

[IdentifierStruct complex type](#section_494682fcdfe84f619eaac9e5f038970e) 67

[Implementer - security considerations](#section_092fc90fde5d4e509a267de586701f99) 554

[Informative references](#section_6777fe0dcbd54155b20ff02f6be6c111) 44

Initialization

[server](#section_fd76ca97592f4a968f82509d6235d98b) 97

[Introduction](#section_98e2d452085d4fdc98c4e1ff6e798bd0) 37

[InvalidMetadataObjectExceptionState complex type](#section_52890afb981b43e4aa71ad178fc176c5) 68

[InvalidMetadataPropertyExceptionState complex type](#section_0160fbe51de542349f26b5aada23d3c1) 68

[InvalidOperationException complex type](#section_670bfd88424347e9bdebf5b5d0665b58) 69

L

[LobSystemInstanceStruct complex type](#section_037fc8923e3943a9a10e4859a046282b) 69

[LobSystemStruct complex type](#section_7bd3cf4928584d13bbbcc78b4dd63d65) 70

Local events

[server](#section_90601ddb9f4b4e10abc8262a5b8ffd27) 536

[LocalizedNameStruct complex type](#section_4e5929f1ae3145bb8694c171e6043ded) 70

M

Message processing

[server](#section_955bd23d22dc4acd8ceb13683009eea1) 97

Messages

[AccessControlEntryStruct complex type](#section_7b39ab059ce743d2af1b46f151d47ceb) 53

[AccessDeniedException complex type](#section_444ffe2a97c94bbca09c9efd26a65572) 53

[AccessDeniedExceptionState complex type](#section_6d5fb12e20c5465194404eb32b85edb5) 53

[ActionParameterStruct complex type](#section_6bfe0b79db7a452d84319707a149c34a) 54

[ActionStruct complex type](#section_6b538d33475a4aa4a746d6b2e546f42c) 54

[AdministrationMetadataCatalogStruct complex type](#section_ec058e3ab7214938bbb239dddf2b3e7a) 55

[ArgumentException complex type](#section_ea4be32080bc4e6d9e205570c7a9fcf3) 55

[ArgumentNullException complex type](#section_edc27edfebf84a4dbfecd154dd1089f6) 56

[ArgumentOutOfRangeException complex type](#section_ed65b16c202247d7bd26e383acf8aad9) 56

[ArrayOfAccessControlEntryStruct complex type](#section_6140d16651064a1d899af99d5b9be170) 56

[ArrayOfAssociationStruct complex type](#section_cff02b3424e04097adac6d2506ac1a29) 56

[ArrayOfEntityStruct complex type](#section_cb76c938ce324962aaf1ac8e7e6a3d55) 57

[ArrayOfLobSystemStruct complex type](#section_2726ea75d2b94f5e863376a0cec68b1e) 57

[ArrayOfLocalizedNameStruct complex type](#section_202917b3b00345d9a3e8bcd548e7517a) 57

[ArrayOfMethodInstanceStruct complex type](#section_78ef7d2568e348c3a82ae1a35988f9f5) 58

[ArrayOfModelStruct complex type](#section_484efab84d1146b1b4c0b0b088278bb1) 58

[ArrayOfPropertyStruct complex type](#section_1e2e0d3302454743827c3ed0d5e1947a) 58

[ArrayOfstring complex type](#section_c12632713dcd49a7a181d696b6a1d353) 58

[ArrayOfTypeDescriptorStruct complex type](#section_695a0250fed44b22a3ff364899c7b3a2) 59

[ArrayOfunsignedInt complex type](#section_36df3d1d4d104a34a791d49be9808bda) 59

[AssociationGroupStruct complex type](#section_ef29b678c6474f4cb72b432f149d466b) 59

[AssociationReferenceStruct complex type](#section_4a958e69122d401da5611b7345872782) 60

[AssociationStruct complex type](#section_7ae77d0de1ae42fea94cfc116bb3a4fb) 61

[attribute groups](#section_8b0f16c2692842989e1530d4ba6bf2da) 90

[attributes](#section_528e91ad07674fcebcfac5404113d859) 90

[BdcException complex type](#section_76f1163a7f65413d88f8ae27fb1cd366) 62

[BdcExceptionState complex type](#section_c4f5546eef0f49d78fd11127fc063258) 62

[CacheUsage simple type](#section_41b3118a2d1f46bea4b50b43eec5c20b) 81

[char simple type](#section_e107d154ef144db1b60e2fd54f3296b7) 82

[complex types](#section_3ed0600adff64d9686ea81606880a030) 48

[ComplexValueStruct complex type](#section_fb5ed41f3afc481c94e462938d372451) 63

[ConcurrentModificationExceptionState complex type](#section_4e91414dabba4cdaa4d60439558bd6d9) 63

[DataClassStruct complex type](#section_9b04dbbdce754009bc35b9789754b5c9) 64

[DefaultValueStruct complex type](#section_d5082a874d684d58a0e3a53ef9e3c048) 64

[DirectionType simple type](#section_36765400568d4814af481364fee9837c) 82

[DuplicateMetadataObjectExceptionState complex type](#section_6b084d33f77d4a0eb75bd158786cf4b0) 65

[elements](#section_bd67544c32594218b3e2521fb797ba25) 48

[EntityStruct complex type](#section_eeae11a17afa4b18b79176164a878d4f) 65

[enumerated](#section_f5c27c5777e046609864310be33c6ddf) 48

[ExceededMetadataObjectLimitExceptionState complex type](#section_cb57c9eef6034081ad62b529308b212b) 66

[Exception complex type](#section_ef9fb399e42d412d8b7d3ab676871575) 66

[FilterDescriptorStruct complex type](#section_64561aa518ca411fb4266b4de0648cbe) 66

[FilterType simple type](#section_4514e84895584942b535030600d4eea5) 82

[groups](#section_399044f3aaa8411f8d786ef1dfe27a20) 90

[IdentifierStruct complex type](#section_494682fcdfe84f619eaac9e5f038970e) 67

[InvalidMetadataObjectExceptionState complex type](#section_52890afb981b43e4aa71ad178fc176c5) 68

[InvalidMetadataPropertyExceptionState complex type](#section_0160fbe51de542349f26b5aada23d3c1) 68

[InvalidOperationException complex type](#section_670bfd88424347e9bdebf5b5d0665b58) 69

[LobSystemInstanceStruct complex type](#section_037fc8923e3943a9a10e4859a046282b) 69

[LobSystemStruct complex type](#section_7bd3cf4928584d13bbbcc78b4dd63d65) 70

[LocalizedNameStruct complex type](#section_4e5929f1ae3145bb8694c171e6043ded) 70

[MetadataException complex type](#section_7bf7858592cf4d2f994ecbde4fdedd38) 70

[MetadataObjectNotFoundExceptionState complex type](#section_101975b92f674db99107f1996954ced1) 71

[MetadataObjectStruct complex type](#section_5590ae82073a4fd8b86850a1d86b541a) 71

[MethodInstanceStruct complex type](#section_f9b4d6eb8883484b8b83178ded5c6a28) 72

[MethodInstanceType simple type](#section_02d38ccff3384b27aa84854b84294d0d) 84

[MethodStruct complex type](#section_6663c94bcde5436f80041d49d50924bb) 73

[ModelStruct complex type](#section_9a098ecaf4f545338408315a2befe185) 73

[namespaces](#section_07ad3db55f484d498870bd28e656a259) 47

[PackageContents simple type](#section_0f875ca8bead461287ee6b274bdda301) 86

[PackageFormatExceptionState complex type](#section_f0fdcc5c1d374f96b8d75bb73c60e21a) 74

[ParameterStruct complex type](#section_3bed25aaba15428d91608248805f10cc) 74

[PropertyStruct complex type](#section_cc41c5d322344d68b5ee8d5d1ed4589e) 75

[ProxyGenerationResult complex type](#section_e19270c9c8204bfea175a5e752f6349c) 75

[SafetyNetStruct complex type](#section_18f0bc2916174c6fbb8c3a6a9f532cfb) 76

[simple types](#section_063710432a5c497a8618fe930e51ee10) 80

[syntax](#section_5d1f1414813849838696c4aaa32e0724) 47

[SystemType simple type](#section_dfe9a605e24240b79887f4e78e22ab8b) 86

[ThrottleScope simple type](#section_30b3f706b26c446892e2366c1c45bd93) 87

[ThrottleType simple type](#section_f837cb179cff4d79adabcbc3542ee30c) 88

[transport](#section_f5efb6597d7d4e278ee8a3a257766a53) 47

[TypeDescriptorFlags simple type](#section_d31c3469b9134943b0968b0056d238fe) 89

[TypeDescriptorStruct complex type](#section_75907338aa6340c5af5e0f4ddcface13) 77

[Version complex type](#section_4f636fa7b9b44f789f1e2dea87b2d92d) 80

[MetadataException complex type](#section_7bf7858592cf4d2f994ecbde4fdedd38) 70

[MetadataObjectNotFoundExceptionState complex type](#section_101975b92f674db99107f1996954ced1) 71

[MetadataObjectStruct complex type](#section_5590ae82073a4fd8b86850a1d86b541a) 71

[MethodInstanceStruct complex type](#section_f9b4d6eb8883484b8b83178ded5c6a28) 72

[MethodInstanceType simple type](#section_02d38ccff3384b27aa84854b84294d0d) 84

[MethodStruct complex type](#section_6663c94bcde5436f80041d49d50924bb) 73

[ModelStruct complex type](#section_9a098ecaf4f545338408315a2befe185) 73

N

[Namespaces](#section_07ad3db55f484d498870bd28e656a259) 47

[Normative references](#section_072ca4d068a24ccfb1f123ca676f4300) 44

O

Operations

[Activate](#section_f767104a226e4dd8af976a08fd630410) 114

[AddAssociationReferenceToAssociationGroup](#section_603145b0e74f4d48a5d3d2445be8c2d7) 117

[AddEntityToModel](#section_a95fa255cb1344b1b6e0c66ae87884ae) 121

[AddThrottlingRule](#section_29ceacc13ae24e87b017937a45960ce2) 124

[BulkSwitchActiveOrValidate](#section_739d51418d7c47b19f78b6a88e1c4e84) 127

[CheckPathInMethodInstances](#section_a2e2856fbfde42b5975c9e5e7b842d9e) 138

[ClearLocalizedNames](#section_5a8ec68516a0495e8e1f47452984963e) 141

[ClearProperties](#section_53cdc549d0d442cc8a9c2bc578630660) 144

[CopyAclAcrossChildren](#section_c14a027e03274fc6ab5fff9a5b0dfda4) 147

[CopyAclAcrossChildrenForSetting](#section_2ad14cd1591e4a91aa04f0002609e7ee) 150

[CopyAclToSetting](#section_6a03297e987243a48367cc74cb72714e) 154

[Deactivate](#section_31efa7b1fe504a288bb4ef5162afcad1) 157

[Delete](#section_23d160172fa7437192bf4564dc945393) 161

[DeleteAssociationReferenceFromAssociationGroup](#section_fd67950f8da249c89174cff80ee114ac) 165

[DeleteDefaultValueForTypeDescriptor](#section_fad7019f9e284cadb79f1256cb980b84) 169

[DeleteNoCascade](#section_9151b46acf474d56b0639c9f87454678) 173

[DeleteProxyAssemblyForLobSystem](#section_504b5521200440b895a6b3ce7e567bd8) 177

[EntityCreate](#section_b3ab7322ebdd4746822d838e1f1772db) 180

[ExportPackage](#section_c3e1b0fb0db64e3193b260260fcc3c4c) 184

[GenerateProxyAssemblyForLobSystem](#section_3cf724968558435babe61d2ee920c55a) 188

[GetAccessControlEntries](#section_5874f40371c346eda12bc6fe83be5f0e) 191

[GetActionById](#section_ecb32c96f6ab47daab4a00518f795e9a) 194

[GetActionParameterById](#section_9d699617e9f24c4e9e86eb3762e51beb) 197

[GetActionParametersForAction](#section_4e1b526807794418bdc03d6203a6bb9d) 200

[GetActionsForEntity](#section_61e7cfb518f14b7f965083f0c4a3b412) 204

[GetAllLocalizedNames](#section_57f4db8d0304488a83036dd99de5ece0) 207

[GetAllLocalizedNamesForMetadataObjectStruct](#section_cc3d856d5ade49f39495cdc3ded959f9) 211

[GetAllPartitionIds](#section_91b7e77901c0415299be13a7e24ba6cc) 214

[GetAllProperties](#section_9b6ffa40aae746e09e2826fa381ce217) 217

[GetAllPropertiesForMetadataObjectStruct](#section_bcef804056f742d9ace4e56bcdffbfd6) 220

[GetAssociationById](#section_61c111f385664a3389dc1f5c9ab609fb) 223

[GetAssociationGroupById](#section_751c6ec77c6740d698d03f0cb1e2a359) 227

[GetAssociationGroupsForEntity](#section_b5bf60b68e9b493fb627a3f660cdc478) 230

[GetAssociationMembersInRole](#section_1ac6eec812fd43a3b62621f665846950) 233

[GetAssociationReferencesForAssociationGroup](#section_5d8791334df447e2972c7499a2725080) 238

[GetAssociationsForDataClass](#section_d80f2a6f61384cc2a910ef03185ad319) 242

[GetAssociationsForEntityAndRole](#section_a4c8b6e069c2447d93d13d7943c142c3) 245

[GetAssociationsForMethod](#section_e06c1dbd9420462e9a214078a8a90419) 249

[GetCacheInvalidationRecordsSince](#section_73ab3b718b8a448e919018ba3819c4f8) 252

[GetChildTypeDescriptorsForTypeDescriptor](#section_2a0fa7f6f9aa4d21beb1d5999496a525) 257

[GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor](#section_c83235c13a664034a5a73add8dabe5f9) 260

[GetDataClassById](#section_00bc64a695694ac29057f6440cd0d04b) 264

[GetDataClassesForSystem](#section_f23380c4cc8b4bdabb1387c8c883da30) 267

[GetDefaultValuesForTypeDescriptor](#section_37011878f7a34b9fb74592b1ffdad54f) 270

[GetEntitiesForAssociationAndRole](#section_8f68fb35744943f8914f00f4d69fce53) 274

[GetEntitiesForSystem](#section_b673a69250294031bad39292cc5c9042) 277

[GetEntitiesLikeNameAndNamespace](#section_82631bdbb38c467b9192eb054aa61f6f) 280

[GetEntitiesReferencedByModelId](#section_98f07ddcdd97463c9bad8f159d8afd0b) 284

[GetEntityById](#section_124859a371f3414ba69e1669f91c2530) 288

[GetEntityCount](#section_7b03e9b0838b48db9aa6d8990df73ce9) 292

[GetEntityNameAndNamespacesForAssociationAndRole](#section_39add8ff288344638e3321f1b71c839a) 294

[GetEntityWithNameAndNamespace](#section_a217d2b5b14c440c8e702f7e9b09680a) 298

[GetEntityWithNameAndNamespaceAndVersion](#section_d89743065aef4d309d79e1ce7edf1b8f) 301

[GetFieldTypeDescriptorsByMethodInstance](#section_698162d2d1d44b988cb613146877bba7) 305

[GetFilterDescriptorById](#section_edade1a85476418ba7283f4e580be936) 308

[GetFilterDescriptorsForMethod](#section_ee96ea1e0dee445c9a0c2ec9472a7be2) 312

[GetIdentifierById](#section_5942ff2e841d48d984d3fa2c0587847f) 315

[GetIdentifiersForEntity](#section_db4e69b3a07d44e1ad0632cf12262b7d) 318

[GetImportProgress](#section_c921c560b8fe4e8991da11a619ab7c61) 322

[GetLevelForTypeDescriptor](#section_1a077c173b814c259477aaf894888ed0) 324

[GetLobSystemAllAssembliesBytes](#section_2b145e7cd66549b6bfc25ef4ddf6cbdf) 327

[GetLobSystemById](#section_7c3ded586b1e44619b0ce256e1f2b730) 331

[GetLobSystemByName](#section_9e614b559bf04340a9b0d3392d4adb6b) 334

[GetLobSystemDataByLobSystem](#section_6c0f7b43e08546d3a554bf31b916a6bf) 338

[GetLobSystemInstanceById](#section_d892d1f8caa74545bd87f98df7de28e0) 341

[GetLobSystemInstancesForLobSystem](#section_4acb23f9426341cbaec25dc00330f6ba) 345

[GetLobSystemProxyAssemblyBytesByLobSystemId](#section_5570800c6d8d455a8724de4b94d042f7) 349

[GetLobSystemsLikeName](#section_34e49087a098413a8c86b9509cdbcb8c) 353

[GetLobSystemsReferencedByEntitiesAssociatedWithModel](#section_f90eb68c34784e2aac4d59d3c48d66ae) 356

[GetMethodById](#section_1396ff9da4f5410498780b91c0a1f4a4) 360

[GetMethodInstanceById](#section_b3e644f089bc4dbfac0350e404995cba) 363

[GetMethodInstancesForDataClass](#section_d9ed3ab5f4c0408babd1d03fb6b0aceb) 367

[GetMethodInstancesForMethod](#section_390b984833db4402b01ed83e754e6c4f) 370

[GetMethodsForDataClass](#section_8f952c673d09421d84be2e4871ec3853) 373

[GetModelById](#section_c60ee955a9dc46e3b6e83b48fdff9d20) 376

[GetModelByName](#section_4424649d1201480c9235098a6379a9f6) 379

[GetModelsByEntityId](#section_1dc983dd4a614588afd748b96c4fb3b5) 382

[GetModelsByName](#section_5ca84e06b1814d628e06444fe5a875e6) 385

[GetParameterById](#section_e7e90980fc924b84a80c6d83c6b27e72) 389

[GetParametersForMethod](#section_ac07820b2120405d9aa3fb2f79c99173) 392

[GetRootTypeDescriptorForParameter](#section_18694df98c5d49269073cfaefd8fb5d4) 395

[GetServiceApplicationId](#section_11ca9b747c74473ab72fe285c0c3b351) 398

[GetSystemUtilityTypeNameForLobSystem](#section_5edc6266776d4cdeb62d10fd5e54333c) 401

[GetThrottlingRules](#section_a3d1d94caab74bc880094a3bf1b51a07) 404

[GetTypeDescriptorById](#section_04b557acc7cb4f529d893665dfd3e403) 406

[GetTypeDescriptorsByNameAndLevelForParameter](#section_1f3429cfdc7b44129f7fe7c0c2a4daf6) 410

[GetTypeDescriptorsForFilterDescriptor](#section_98155661b04f420898a2d149d85581b1) 413

[GetTypeReflectorTypeNameForParameter](#section_3c305a78035e42ae9e43bbc1d3d80700) 416

[GetXmlSchemaForView](#section_8c370c5991ef42538167dc65a511ea73) 420

[HaveRights](#section_2c2e259479c744ee8f970c42c69b9fd8) 422

[ImportPackage](#section_7fecdad3cda2465e9ac2f267a4a9d667) 426

[ImportPackageWithProgress](#section_b6614c4331e54b8f97a379f31e035c1e) 432

[IsMethodInstantiated](#section_0c8deca979904309bbe7ef9b9b0f6f7a) 438

[IsParameterReferencedByMethodInstance](#section_779cb73dc4dd42d6a4769f70315f747e) 441

[MetadataObjectCreate](#section_ba4a4d73f0cf4135bfd954ebd60fb7e0) 444

[MetadataObjectMergeXml](#section_4ae7a35a884849799a954086b130aa32) 452

[MetadataObjectReadXml](#section_a140621e776749efac9e73cfb9a9722a) 458

[MetadataObjectWriteXml](#section_b2426df7af9c4828be962520590aaa8e) 466

[ModelReadXml](#section_add4d7ed599c4a6abff5684b7156ae73) 472

[ReadSlicedXml](#section_525c8e33b19248849c7edf844154075e) 478

[RemoveEntityFromModel](#section_0e250f99350748cb90a003f40a21a911) 481

[RemoveLocalizedName](#section_e76a0c209d8b40d4875b527992861272) 484

[RemoveProperty](#section_ec0eb69a29464f8fbc09d9b4fa2f4440) 487

[RemoveThrottlingRule](#section_1202dae18815420d8762447e7116a17a) 490

[SaveLocalizedName](#section_d9a7810da9a249adba3cde308646b026) 493

[SaveProperty](#section_1b6f8e5fdc5e41009dd7f755884163c6) 496

[SetAccessControlEntries](#section_53324ef7ba4446038eb391a696987c28) 499

[SetDefaultActionForEntity](#section_b0b29e497c024e05b112781eec954fd2) 503

[SetDefaultValuesForTypeDescriptor](#section_0d6a27afe3f144bf9d1b7cc1d37fb65d) 506

[SetLobSystemDataByLobSystemId](#section_59dff17ac8a34322bd5d489d8d753458) 510

[TypeDescriptorCreate](#section_55bd14e68e4e4d2aaa0fc94f46262236) 513

[TypeDescriptorMergeXml](#section_6dd2fb614fe746ab8a59a0318dd08a95) 517

[TypeDescriptorReadXml](#section_003fea9ca00d4dbba695ecd54bea7d6d) 521

[Update](#section_7d0a3f97234641debe5d47eac1e45b40) 526

[WriteSlicedXml](#section_f6412d883b3e4d6285d0cc08b23300bf) 532

[Overview (synopsis)](#section_bf269b8cd6be488e96988f088809c971) 45

P

[PackageContents simple type](#section_0f875ca8bead461287ee6b274bdda301) 86

[PackageFormatExceptionState complex type](#section_f0fdcc5c1d374f96b8d75bb73c60e21a) 74

[ParameterStruct complex type](#section_3bed25aaba15428d91608248805f10cc) 74

[Preconditions](#section_6f7e432ff8fa4963af1cdd8b8a59bd0e) 46

[Prerequisites](#section_6f7e432ff8fa4963af1cdd8b8a59bd0e) 46

[Product behavior](#section_5983ca01e7fc4085bdea33881d6805c2) 798

[PropertyStruct complex type](#section_cc41c5d322344d68b5ee8d5d1ed4589e) 75

Protocol Details

[overview](#section_fba3d86b056f480e846c99fe081a2bf4) 91

[ProxyGenerationResult complex type](#section_e19270c9c8204bfea175a5e752f6349c) 75

R

[Reading an Entity example](#section_999b69c3b0f64679bbe68ed49b253df3) 545

[Reading the security information of a MetadataObject example](#section_c5478581e3c74e6f95c7227de2d12eaa) 540

[References](#section_e805d44f3ef54709b4b2dfecb38eede3) 44

[informative](#section_6777fe0dcbd54155b20ff02f6be6c111) 44

[normative](#section_072ca4d068a24ccfb1f123ca676f4300) 44

[Relationship to other protocols](#section_80b5e0c66b5849c3abf478e1f04a3407) 45

S

[SafetyNetStruct complex type](#section_18f0bc2916174c6fbb8c3a6a9f532cfb) 76

Security

[implementer considerations](#section_092fc90fde5d4e509a267de586701f99) 554

Sequencing rules

[server](#section_955bd23d22dc4acd8ceb13683009eea1) 97

Server

[abstract data model](#section_cdd56ed1e9c24d739e996f9101408f1b) 91

[Activate operation](#section_f767104a226e4dd8af976a08fd630410) 114

[AddAssociationReferenceToAssociationGroup operation](#section_603145b0e74f4d48a5d3d2445be8c2d7) 117

[AddEntityToModel operation](#section_a95fa255cb1344b1b6e0c66ae87884ae) 121

[AddThrottlingRule operation](#section_29ceacc13ae24e87b017937a45960ce2) 124

[BulkSwitchActiveOrValidate operation](#section_739d51418d7c47b19f78b6a88e1c4e84) 127

[CheckPathInMethodInstances operation](#section_a2e2856fbfde42b5975c9e5e7b842d9e) 138

[ClearLocalizedNames operation](#section_5a8ec68516a0495e8e1f47452984963e) 141

[ClearProperties operation](#section_53cdc549d0d442cc8a9c2bc578630660) 144

[CopyAclAcrossChildren operation](#section_c14a027e03274fc6ab5fff9a5b0dfda4) 147

[CopyAclAcrossChildrenForSetting operation](#section_2ad14cd1591e4a91aa04f0002609e7ee) 150

[CopyAclToSetting operation](#section_6a03297e987243a48367cc74cb72714e) 154

[Deactivate operation](#section_31efa7b1fe504a288bb4ef5162afcad1) 157

[Delete operation](#section_23d160172fa7437192bf4564dc945393) 161

[DeleteAssociationReferenceFromAssociationGroup operation](#section_fd67950f8da249c89174cff80ee114ac) 165

[DeleteDefaultValueForTypeDescriptor operation](#section_fad7019f9e284cadb79f1256cb980b84) 169

[DeleteNoCascade operation](#section_9151b46acf474d56b0639c9f87454678) 173

[DeleteProxyAssemblyForLobSystem operation](#section_504b5521200440b895a6b3ce7e567bd8) 177

[EntityCreate operation](#section_b3ab7322ebdd4746822d838e1f1772db) 180

[ExportPackage operation](#section_c3e1b0fb0db64e3193b260260fcc3c4c) 184

[GenerateProxyAssemblyForLobSystem operation](#section_3cf724968558435babe61d2ee920c55a) 188

[GetAccessControlEntries operation](#section_5874f40371c346eda12bc6fe83be5f0e) 191

[GetActionById operation](#section_ecb32c96f6ab47daab4a00518f795e9a) 194

[GetActionParameterById operation](#section_9d699617e9f24c4e9e86eb3762e51beb) 197

[GetActionParametersForAction operation](#section_4e1b526807794418bdc03d6203a6bb9d) 200

[GetActionsForEntity operation](#section_61e7cfb518f14b7f965083f0c4a3b412) 204

[GetAllLocalizedNames operation](#section_57f4db8d0304488a83036dd99de5ece0) 207

[GetAllLocalizedNamesForMetadataObjectStruct operation](#section_cc3d856d5ade49f39495cdc3ded959f9) 211

[GetAllPartitionIds operation](#section_91b7e77901c0415299be13a7e24ba6cc) 214

[GetAllProperties operation](#section_9b6ffa40aae746e09e2826fa381ce217) 217

[GetAllPropertiesForMetadataObjectStruct operation](#section_bcef804056f742d9ace4e56bcdffbfd6) 220

[GetAssociationById operation](#section_61c111f385664a3389dc1f5c9ab609fb) 223

[GetAssociationGroupById operation](#section_751c6ec77c6740d698d03f0cb1e2a359) 227

[GetAssociationGroupsForEntity operation](#section_b5bf60b68e9b493fb627a3f660cdc478) 230

[GetAssociationMembersInRole operation](#section_1ac6eec812fd43a3b62621f665846950) 233

[GetAssociationReferencesForAssociationGroup operation](#section_5d8791334df447e2972c7499a2725080) 238

[GetAssociationsForDataClass operation](#section_d80f2a6f61384cc2a910ef03185ad319) 242

[GetAssociationsForEntityAndRole operation](#section_a4c8b6e069c2447d93d13d7943c142c3) 245

[GetAssociationsForMethod operation](#section_e06c1dbd9420462e9a214078a8a90419) 249

[GetCacheInvalidationRecordsSince operation](#section_73ab3b718b8a448e919018ba3819c4f8) 252

[GetChildTypeDescriptorsForTypeDescriptor operation](#section_2a0fa7f6f9aa4d21beb1d5999496a525) 257

[GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor operation](#section_c83235c13a664034a5a73add8dabe5f9) 260

[GetDataClassById operation](#section_00bc64a695694ac29057f6440cd0d04b) 264

[GetDataClassesForSystem operation](#section_f23380c4cc8b4bdabb1387c8c883da30) 267

[GetDefaultValuesForTypeDescriptor operation](#section_37011878f7a34b9fb74592b1ffdad54f) 270

[GetEntitiesForAssociationAndRole operation](#section_8f68fb35744943f8914f00f4d69fce53) 274

[GetEntitiesForSystem operation](#section_b673a69250294031bad39292cc5c9042) 277

[GetEntitiesLikeNameAndNamespace operation](#section_82631bdbb38c467b9192eb054aa61f6f) 280

[GetEntitiesReferencedByModelId operation](#section_98f07ddcdd97463c9bad8f159d8afd0b) 284

[GetEntityById operation](#section_124859a371f3414ba69e1669f91c2530) 288

[GetEntityCount operation](#section_7b03e9b0838b48db9aa6d8990df73ce9) 292

[GetEntityNameAndNamespacesForAssociationAndRole operation](#section_39add8ff288344638e3321f1b71c839a) 294

[GetEntityWithNameAndNamespace operation](#section_a217d2b5b14c440c8e702f7e9b09680a) 298

[GetEntityWithNameAndNamespaceAndVersion operation](#section_d89743065aef4d309d79e1ce7edf1b8f) 301

[GetFieldTypeDescriptorsByMethodInstance operation](#section_698162d2d1d44b988cb613146877bba7) 305

[GetFilterDescriptorById operation](#section_edade1a85476418ba7283f4e580be936) 308

[GetFilterDescriptorsForMethod operation](#section_ee96ea1e0dee445c9a0c2ec9472a7be2) 312

[GetIdentifierById operation](#section_5942ff2e841d48d984d3fa2c0587847f) 315

[GetIdentifiersForEntity operation](#section_db4e69b3a07d44e1ad0632cf12262b7d) 318

[GetImportProgress operation](#section_c921c560b8fe4e8991da11a619ab7c61) 322

[GetLevelForTypeDescriptor operation](#section_1a077c173b814c259477aaf894888ed0) 324

[GetLobSystemAllAssembliesBytes operation](#section_2b145e7cd66549b6bfc25ef4ddf6cbdf) 327

[GetLobSystemById operation](#section_7c3ded586b1e44619b0ce256e1f2b730) 331

[GetLobSystemByName operation](#section_9e614b559bf04340a9b0d3392d4adb6b) 334

[GetLobSystemDataByLobSystem operation](#section_6c0f7b43e08546d3a554bf31b916a6bf) 338

[GetLobSystemInstanceById operation](#section_d892d1f8caa74545bd87f98df7de28e0) 341

[GetLobSystemInstancesForLobSystem operation](#section_4acb23f9426341cbaec25dc00330f6ba) 345

[GetLobSystemProxyAssemblyBytesByLobSystemId operation](#section_5570800c6d8d455a8724de4b94d042f7) 349

[GetLobSystemsLikeName operation](#section_34e49087a098413a8c86b9509cdbcb8c) 353

[GetLobSystemsReferencedByEntitiesAssociatedWithModel operation](#section_f90eb68c34784e2aac4d59d3c48d66ae) 356

[GetMethodById operation](#section_1396ff9da4f5410498780b91c0a1f4a4) 360

[GetMethodInstanceById operation](#section_b3e644f089bc4dbfac0350e404995cba) 363

[GetMethodInstancesForDataClass operation](#section_d9ed3ab5f4c0408babd1d03fb6b0aceb) 367

[GetMethodInstancesForMethod operation](#section_390b984833db4402b01ed83e754e6c4f) 370

[GetMethodsForDataClass operation](#section_8f952c673d09421d84be2e4871ec3853) 373

[GetModelById operation](#section_c60ee955a9dc46e3b6e83b48fdff9d20) 376

[GetModelByName operation](#section_4424649d1201480c9235098a6379a9f6) 379

[GetModelsByEntityId operation](#section_1dc983dd4a614588afd748b96c4fb3b5) 382

[GetModelsByName operation](#section_5ca84e06b1814d628e06444fe5a875e6) 385

[GetParameterById operation](#section_e7e90980fc924b84a80c6d83c6b27e72) 389

[GetParametersForMethod operation](#section_ac07820b2120405d9aa3fb2f79c99173) 392

[GetRootTypeDescriptorForParameter operation](#section_18694df98c5d49269073cfaefd8fb5d4) 395

[GetServiceApplicationId operation](#section_11ca9b747c74473ab72fe285c0c3b351) 398

[GetSystemUtilityTypeNameForLobSystem operation](#section_5edc6266776d4cdeb62d10fd5e54333c) 401

[GetThrottlingRules operation](#section_a3d1d94caab74bc880094a3bf1b51a07) 404

[GetTypeDescriptorById operation](#section_04b557acc7cb4f529d893665dfd3e403) 406

[GetTypeDescriptorsByNameAndLevelForParameter operation](#section_1f3429cfdc7b44129f7fe7c0c2a4daf6) 410

[GetTypeDescriptorsForFilterDescriptor operation](#section_98155661b04f420898a2d149d85581b1) 413

[GetTypeReflectorTypeNameForParameter operation](#section_3c305a78035e42ae9e43bbc1d3d80700) 416

[GetXmlSchemaForView operation](#section_8c370c5991ef42538167dc65a511ea73) 420

[HaveRights operation](#section_2c2e259479c744ee8f970c42c69b9fd8) 422

[ImportPackage operation](#section_7fecdad3cda2465e9ac2f267a4a9d667) 426

[ImportPackageWithProgress operation](#section_b6614c4331e54b8f97a379f31e035c1e) 432

[initialization](#section_fd76ca97592f4a968f82509d6235d98b) 97

[IsMethodInstantiated operation](#section_0c8deca979904309bbe7ef9b9b0f6f7a) 438

[IsParameterReferencedByMethodInstance operation](#section_779cb73dc4dd42d6a4769f70315f747e) 441

[local events](#section_90601ddb9f4b4e10abc8262a5b8ffd27) 536

[message processing](#section_955bd23d22dc4acd8ceb13683009eea1) 97

[MetadataObjectCreate operation](#section_ba4a4d73f0cf4135bfd954ebd60fb7e0) 444

[MetadataObjectMergeXml operation](#section_4ae7a35a884849799a954086b130aa32) 452

[MetadataObjectReadXml operation](#section_a140621e776749efac9e73cfb9a9722a) 458

[MetadataObjectWriteXml operation](#section_b2426df7af9c4828be962520590aaa8e) 466

[ModelReadXml operation](#section_add4d7ed599c4a6abff5684b7156ae73) 472

[ReadSlicedXml operation](#section_525c8e33b19248849c7edf844154075e) 478

[RemoveEntityFromModel operation](#section_0e250f99350748cb90a003f40a21a911) 481

[RemoveLocalizedName operation](#section_e76a0c209d8b40d4875b527992861272) 484

[RemoveProperty operation](#section_ec0eb69a29464f8fbc09d9b4fa2f4440) 487

[RemoveThrottlingRule operation](#section_1202dae18815420d8762447e7116a17a) 490

[SaveLocalizedName operation](#section_d9a7810da9a249adba3cde308646b026) 493

[SaveProperty operation](#section_1b6f8e5fdc5e41009dd7f755884163c6) 496

[sequencing rules](#section_955bd23d22dc4acd8ceb13683009eea1) 97

[SetAccessControlEntries operation](#section_53324ef7ba4446038eb391a696987c28) 499

[SetDefaultActionForEntity operation](#section_b0b29e497c024e05b112781eec954fd2) 503

[SetDefaultValuesForTypeDescriptor operation](#section_0d6a27afe3f144bf9d1b7cc1d37fb65d) 506

[SetLobSystemDataByLobSystemId operation](#section_59dff17ac8a34322bd5d489d8d753458) 510

[timer events](#section_ab906dc0082148cfafd415e20bd3c2d6) 536

[timers](#section_dc5e7df901d14ddfb56e7b6180122975) 97

[TypeDescriptorCreate operation](#section_55bd14e68e4e4d2aaa0fc94f46262236) 513

[TypeDescriptorMergeXml operation](#section_6dd2fb614fe746ab8a59a0318dd08a95) 517

[TypeDescriptorReadXml operation](#section_003fea9ca00d4dbba695ecd54bea7d6d) 521

[Update operation](#section_7d0a3f97234641debe5d47eac1e45b40) 526

[WriteSlicedXml operation](#section_f6412d883b3e4d6285d0cc08b23300bf) 532

[Server details](#section_a8735471690a448a997513fd76b62883) 91

[Setting the security information of a MetadataObject example](#section_49ee3975e9924ebcb85ba5bc4114b686) 538

[Simple types](#section_063710432a5c497a8618fe930e51ee10) 80

[CacheUsage](#section_41b3118a2d1f46bea4b50b43eec5c20b) 81

[char](#section_e107d154ef144db1b60e2fd54f3296b7) 82

[DirectionType](#section_36765400568d4814af481364fee9837c) 82

[FilterType](#section_4514e84895584942b535030600d4eea5) 82

[MethodInstanceType](#section_02d38ccff3384b27aa84854b84294d0d) 84

[PackageContents](#section_0f875ca8bead461287ee6b274bdda301) 86

[SystemType](#section_dfe9a605e24240b79887f4e78e22ab8b) 86

[ThrottleScope](#section_30b3f706b26c446892e2366c1c45bd93) 87

[ThrottleType](#section_f837cb179cff4d79adabcbc3542ee30c) 88

[TypeDescriptorFlags](#section_d31c3469b9134943b0968b0056d238fe) 89

[Standards assignments](#section_ed3890d5bab54fe5b403b95a0025c26b) 46

Syntax

[messages - overview](#section_5d1f1414813849838696c4aaa32e0724) 47

[SystemType simple type](#section_dfe9a605e24240b79887f4e78e22ab8b) 86

T

[ThrottleScope simple type](#section_30b3f706b26c446892e2366c1c45bd93) 87

[ThrottleType simple type](#section_f837cb179cff4d79adabcbc3542ee30c) 88

Timer events

[server](#section_ab906dc0082148cfafd415e20bd3c2d6) 536

Timers

[server](#section_dc5e7df901d14ddfb56e7b6180122975) 97

[Tracking changes](#section_6acbde3dcc3645129d0a147a9be5ad30) 807

[Transport](#section_f5efb6597d7d4e278ee8a3a257766a53) 47

[TypeDescriptorFlags simple type](#section_d31c3469b9134943b0968b0056d238fe) 89

[TypeDescriptorStruct complex type](#section_75907338aa6340c5af5e0f4ddcface13) 77

Types

[complex](#section_3ed0600adff64d9686ea81606880a030) 48

[simple](#section_063710432a5c497a8618fe930e51ee10) 80

U

[Updating an Entity example](#section_bd1a8bbab8a74aadbbb480f3e280d7df) 550

V

[Vendor-extensible fields](#section_c9087805930c43bf881457c1e1cdaf1a) 46

[Version complex type](#section_4f636fa7b9b44f789f1e2dea87b2d92d) 80

[Versioning](#section_a5ed04a3c6db49469f7dd1e0a673ec2f) 46

W

[WSDL](#section_b8cb7d7ad8b749b1b9a3c42eb4e83357) 555

X

[XML schema](#section_3bd4d44c9ef6438c9155b51454b36686) 750

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure Schema](#section_d3745a4d84e642f4a0f0639b918a4d5f) 750

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel Schema](#section_485a69a009554e2188bd9865fef7fcdd) 751

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime Schema](#section_dc89b4b5a8b24a308af3e1e6614c00f9) 782

[http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific Schema](#section_798b07a495c044b3ada14c1eeaa7e668) 783

[http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants Schema](#section_3a22419c3a6343a691b610c7aef0a37b) 784

[http://schemas.datacontract.org/2004/07/System Schema](#section_1b1bf1ebc4c0488b9f9cfdd2c15811e4) 796

[http://schemas.microsoft.com/2003/10/Serialization/ Schema](#section_c935be5834d44e39b725a56ef3a0efb4) 795

[http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](#section_cfc6ec95fd094843b291f03f187713a6) 795

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