

# [MS-BDCRAWPS]: Business Data Connectivity Remote Administration Web Service Protocol

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## Revision Summary

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# 1 Introduction

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

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

## 1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

- access control entry (ACE)**
- access control list (ACL)**
- anonymous user**
- Augmented Backus-Naur Form (ABNF)**
- Coordinated Universal Time (UTC)**
- GUID**
- Hypertext Transfer Protocol (HTTP)**
- Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**
- language code identifier (LCID)**
- security principal**
- SOAP**
- SOAP action**
- SOAP body**
- SOAP fault**
- Unicode**
- XML**
- XML namespace**

The following terms are defined in [\[MS-OFCGLOS\]](#):

- AccessChecker**
- Action**
- ActionParameter**
- ActivityTrackingFilter**
- Association**
- AssociationGroup**
- AssociationNavigator**
- AssociationReference**
- Associator**
- base64 encoding**
- BatchingPositionFilter**
- BatchingTerminationFilter**
- BinarySecurityDescriptorAccessor**
- BulkAssociatedIdEnumerator**
- BulkAssociationNavigator**
- BulkIdEnumerator**
- BulkSpecificFinder**
- Business Logic Module**
- ChangedIdEnumerator**
- ComparisonFilter**

**complex type**  
**Creator**  
**DataClass**  
**DefaultValue**  
**DeletedIdEnumerator**  
**Deleter**  
**Disassociator**  
**empty GUID**  
**endpoint**  
**Entity**  
**EntityInstance**  
**field**  
**FilterDescriptor**  
**Finder**  
**GenericInvoker**  
**Identifier**  
**IdEnumerator**  
**InputFilter**  
**InputOutputFilter**  
**LastIdFilter**  
**LimitFilter**  
**line-of-business (LOB) system**  
**LobSystem**  
**LobSystemInstance**  
**localized name**  
**metadata store**  
**MetadataCatalog**  
**MetadataModel**  
**MetadataObject**  
**MetadataObjectId**  
**Method**  
**MethodInstance**  
**Model**  
**OutputFilter**  
**PageNumberFilter**  
**Parameter**  
**partition**  
**PasswordCredentialFilter**  
**Property**  
**ReturnTypeDescriptor**  
**root element**  
**root TypeDescriptor**  
**Scalar**  
**Setting**  
**simple type**  
**SpecificFinder**  
**SsoTicketFilter**  
**StreamAccessor**  
**TimeStampFilter**  
**TypeDescriptor**  
**TypeReflector**  
**Uniform Resource Identifier (URI)**  
**Uniform Resource Locator (URL)**  
**Updater**  
**UserContextFilter**

**UserCultureFilter**  
**UsernameCredentialFilter**  
**UserProfileFilter**  
**View**  
**web service**  
**Web Services Description Language (WSDL)**  
**WildcardFilter**  
**WSDL message**  
**WSDL operation**  
**XML attribute**  
**XML element**  
**XML namespace prefix**  
**XML schema**  
**XML schema definition (XSD)**

The following terms are specific to this document:

**Open Data Protocol (OData):** A web protocol for querying and updating data specified in [MS-ODATA].

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

## 1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the documents, which are updated frequently. References to other documents include a publishing year when one is available.

### 1.2.1 Normative References

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

[ECMA-335] ECMA International, "Common Language Infrastructure (CLI) Partitions I to VI", ECMA-335, June 2006, <http://www.ecma-international.org/publications/standards/Ecma-335.htm>

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

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

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

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

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

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

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

[WSA1.0] World Wide Web Consortium, "Web Services Addressing 1.0 - WSDL Binding", W3C Candidate Recommendation, May 2006, <http://www.w3.org/TR/2006/CR-ws-addr-wsdl-20060529/>

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

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

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

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

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

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

### 1.2.2 Informative References

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

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

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

[MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".

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

### 1.3 Protocol Overview (Synopsis)

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

To facilitate this access, it is possible to store descriptions of the programmatic interface of the LOB systems, such as "get all customers" or "update order information", by using data structures, such as **Methods**, **Parameters**, and **TypeDescriptors**. It is also possible to store information about the LOB systems themselves, such as the server name, connection information, and steps on how to authenticate users, by using data structures, such as **LobSystem** and **LobSystemInstance**.

Methods can be considered to live within an **Entity** representing a business data type, such as a "customer" or an "order". The LOB system interface definitions can then be transformed into

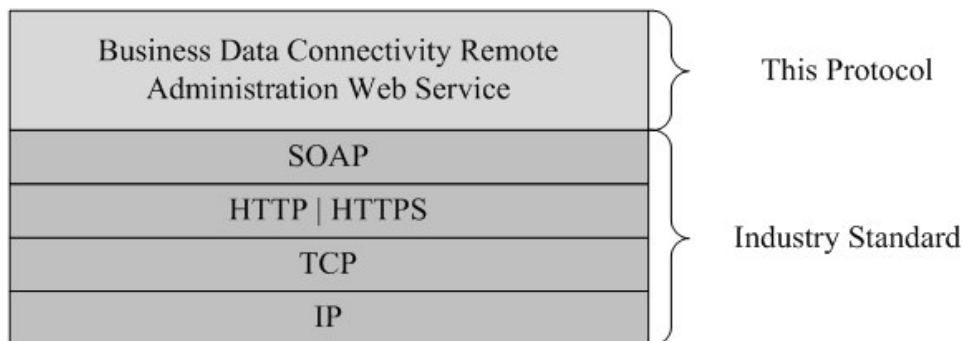
normalized, stereotypical operations against Entities, such as "Read-An-Entity-Instance-By-Id", "Read-Entity-Instances" and "Check-Entity-Instance-Permissions" by annotating the LOB system interface descriptions, with the annotations described by data structures, such as **MethodInstance**, **Identifier**,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

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

## 1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#) or Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS), as described in [\[RFC2818\]](#)..

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



**Figure 1: This protocol in relation to other protocols**

## 1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) URIs** that are known by protocol clients. The endpoint (4) URI of the protocol server and the transport that is used by the protocol server are known by the protocol client.

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

## 1.6 Applicability Statement

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

## 1.7 Versioning and Capability Negotiation

This specification covers versioning issues in the following areas:

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



- **Protocol Versions:** This protocol is not versioned.
- **Capability Negotiation:** This protocol does not support version negotiation.

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

## 2 Messages

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

### 2.1 Transport

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

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

### 2.2 Common Message Syntax

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

#### 2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
q1	<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	
q9	<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	
ser	<a href="http://schemas.microsoft.com/2003/10/Serialization/">http://schemas.microsoft.com/2003/10/Serialization/</a>	
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
tns	<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a>	
tns1	<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel</a>	
tns2	<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime</a>	
tns3	Microsoft.BusinessData.SharePoint	
tns4	<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants">http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants</a>	
tns5	Microsoft.SharePoint.BusinessData	
tns6	<a href="http://www.microsoft.com/Office/2009/BusinessDataCatalog">http://www.microsoft.com/Office/2009/BusinessDataCatalog</a>	

Pref ix	Namespace URI	Reference
tns7	http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports	
wsa w	http://www.w3.org/2006/05/addressing/wsdl	<a href="#">[WSA1.0]</a>
wsdl	http://schemas.xmlsoap.org/wsdl/	<a href="#">[WSDL]</a>
xs	http://www.w3.org/2001/XMLSchema	<a href="#">[XMLSCHEM A1]</a> <a href="#">[XMLSCHEM A2]</a>

### 2.2.2 Messages

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

### 2.2.3 Elements

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

### 2.2.4 Complex Types

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

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

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

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

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

**Detail:** MUST either contain the error complex type or empty

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

Complex type	Description
<b>AccessControlEntryStruct</b>	The <b>AccessControlEntryStruct</b> complex type contains information about an <b>access control entry (ACE)</b> .
<b>AccessDeniedException</b>	The <b>AccessDeniedException</b> complex type is an error complex type that contains information about a protocol-server-side error because of a violation of access control on the metadata store. The complex type MUST only be included as part of a SOAP fault

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

Complex type	Description
	<b>localized name.</b>
<b>ArrayOfMethodInstanceStruct</b>	The <b>ArrayOfMethodInstanceStruct</b> complex type is a list of complex types, each of which represents a MethodInstances.
<b>ArrayOfModelStruct</b>	The <b>ArrayOfModelStruct</b> complex type is a list of complex types, each of which represents a <b>Model</b> .
<b>ArrayOfPropertyStruct</b>	The <b>ArrayOfPropertyStruct</b> complex type is a list of complex types, each of which represents a property.
<b>ArrayOfstring</b>	The <b>ArrayOfString</b> complex type represents a list of xs:string as specified in <a href="#">[XMLSCHEMA2]</a> .
<b>ArrayOfTypeDescriptorStruct</b>	The <b>ArrayOfTypeDescriptorStruct</b> complex type is a list of complex types, each of which represents a TypeDescriptor.
<b>ArrayOfunsignedInt</b>	The ArrayOfunsignedInt complex type represents a list of xs:unsignedInt elements as specified in <a href="#">[XMLSCHEMA2]</a> .
<b>AssociationGroupStruct</b>	The <b>AssociationGroupStruct</b> complex type contains information about an <b>AssociationGroup</b> . Each Association referenced by the <b>AssociationReferences</b> contained by the AssociationGroup is identified by the values in the same index of the lists <b>associationEntityNames</b> , <b>associationEntityNamespaces</b> , <b>associationNames</b> and <b>associationIds</b> .
<b>AssociationReferenceStruct</b>	The <b>AssociationReferenceStruct</b> complex type contains information about an AssociationReference.
<b>AssociationStruct</b>	The <b>AssociationStruct</b> complex type MUST contain information about an Association. A namespace at any index of the <b>sourceEntityNamespaces</b> element of this complex type MUST be the namespace of the Entity which the name at the same index of the <b>sourceEntityNames</b> element belongs to.
<b>BdcException</b>	The <b>BdcException</b> complex type is an error complex type that contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>BdcExceptionState</b>	The <b>BdcExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section

Complex type	Description
	<a href="#">2.2.4</a> ).
<b>ComplexValueStruct</b>	The <b>ComplexValueStruct</b> complex type MUST contain information about data types.
<b>ConcurrentModificationExceptionState</b>	The <b>ConcurrentModificationExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because of a concurrent modification of a MetadataObject. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>DataClassStruct</b>	The <b>DataClassStruct</b> complex type MUST contain information about a <b>DataClass</b> .
<b>DefaultValueStruct</b>	The <b>DefaultValueStruct</b> complex type contains details of a <b>DefaultValue</b> of a TypeDescriptor.
<b>DuplicateMetadataObjectExceptionState</b>	The <b>DuplicateMetadataObjectExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error from a duplication of a MetadataObject. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>EntityStruct</b>	The <b>EntityStruct</b> complex type contains information about an Entity.
<b>ExceededMetadataObjectLimitExceptionState</b>	The <b>ExceededMetadataObjectLimitExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because of a MetadataObject exceeding an implementation-specific limit to the number of MetadataObjects it can contain or refer to. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>Exception</b>	The <b>Exception</b> complex type is an error complex type that contains information about a protocol-server-side error. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>FilterDescriptorStruct</b>	The <b>FilterDescriptorStruct</b> complex type contains information about a FilterDescriptor.
<b>IdentifierStruct</b>	The <b>IdentifierStruct</b> complex type contains information about an Identifier.
<b>InvalidMetadataObjectExceptionState</b>	The <b>InvalidMetadataObjectExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because a MetadataObject contained invalid attributes. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).

Complex type	Description
<b>InvalidMetadataPropertyExceptionState</b>	The <b>InvalidMetadataPropertyExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because an invalid property was detected in the set of properties of a MetadataObject. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>InvalidOperationException</b>	The <b>InvalidOperationException</b> complex type is an error complex type that contains information about a protocol-server-side error because of an attempt to perform an operation that is invalid for the current state of the protocol server. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>LobSystemInstanceStruct</b>	The LobSystemInstanceStruct complex type contains information about an LobSystemInstance.
<b>LobSystemStruct</b>	The <b>LobSystemStruct</b> complex type contains information about an LobSystem.
<b>LocalizedNameStruct</b>	The <b>LocalizedNameStruct</b> complex type contains information about a localized name.
<b>MetadataException</b>	The <b>MetadataException</b> complex type is an error complex type that contains information about a protocol-server-side error because of a syntactic or semantic violation of a MetadataModel constraint in the metadata store. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>MetadataObjectNotFoundExceptionState</b>	The <b>MetadataObjectNotFoundExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because a requested MetadataObject was not found. The complex type <b>MUST</b> only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>MetadataObjectStruct</b>	This structure contains the attributes of the MetadataObject.
<b>MethodInstanceStruct</b>	The <b>MethodInstanceStruct</b> complex type contains information about a MethodInstance.
<b>MethodStruct</b>	The <b>MethodStruct</b> complex type contains information about a Method.
<b>ModelStruct</b>	The <b>ModelStruct</b> complex type contains information about a Model.
<b>PackageFormatExceptionState</b>	The <b>PackageFormatExceptionState</b> complex type is an error complex type that contains information about a protocol-server-side error because a specified XML does not conform to <a href="#">[MS-BDCMFFS]</a> or the MetadataModel contained within the specified XML conforming to <a href="#">[MS-BDCMFFS]</a> having invalid

Complex type	Description
	configuration of MetadataObjects or their attributes. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> )
<b>ParameterStruct</b>	This structure contains the information about a Parameter.
<b>PropertyStruct</b>	The <b>PropertyStruct</b> complex type contains information about a property.
<b>ProxyGenerationResult</b>	The <b>ProxyGenerationResult</b> complex type contains information about <b>Business Logic Modules</b> <a href="#">&lt;1&gt;</a> .
<b>SystemException</b>	The <b>SystemException</b> complex type is an error complex type that contains information about a protocol-server-side error. The complex type MUST only be included as part of a SOAP fault as specified in <b>Complex Types</b> (section <a href="#">2.2.4</a> ).
<b>TypeDescriptorStruct</b>	The <b>TypeDescriptorStruct</b> complex type contains information about a TypeDescriptor.
<b>Version</b>	The <b>Version</b> complex type MUST contain information about the version of a DataClass.

### 2.2.4.1 AccessControlEntryStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

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

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

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

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



## 2.2.4.2 AccessDeniedException

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

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

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

## 2.2.4.3 AccessDeniedExceptionState

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

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

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

**CurrentIdentity:** The [security principal \(2\)](#) in whose context the protocol client is operating when the violation of access control occurs. This element MUST be present.

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

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

## 2.2.4.4 ActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

```

<xs:complexContent mixed="false">
  <xs:extension base="tns5:MetadataObjectStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

**index:** The index of the ActionParameter. This index corresponds to the parameter in the command of the Action that contains this ActionParameter. The index values of ActionParameters that are contained by the same Action MUST be greater than or equal to 0, and less than the number of ActionParameters that are contained by the Action. The index values of ActionParameters MUST be unique across all ActionParameters that are contained by the same Action. [<2>](#)

### 2.2.4.5 ActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
        <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

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

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

#### 2.2.4.6 AdministrationMetadataCatalogStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="AdministrationMetadataCatalogStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

#### 2.2.4.7 ArgumentException

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

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

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

#### 2.2.4.8 ArgumentNullException

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

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

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

#### 2.2.4.9 ArgumentOutOfRangeException

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

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

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

#### 2.2.4.10 ArrayOfAccessControlEntryStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfAccessControlEntryStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="tns5:AccessControlEntryStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

#### 2.2.4.11 ArrayOfAssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfAssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true"
type="tns5:AssociationStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

#### 2.2.4.12 ArrayOfEntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

```

    <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="tns5:EntityStruct"/>
  </xs:sequence>
</xs:complexType>

```

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

#### 2.2.4.13 ArrayOfLobSystemStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfLobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="tns5:LobSystemStruct"/>
  </xs:sequence>
</xs:complexType>

```

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

#### 2.2.4.14 ArrayOfLocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfLocalizedNameStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="tns5:LocalizedNameStruct"/>
  </xs:sequence>
</xs:complexType>

```

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

#### 2.2.4.15 ArrayOfMethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfMethodInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="tns5:MethodInstanceStruct"/>
  </xs:sequence>

```

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

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

#### 2.2.4.16 ArrayOfModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
      type="tns5:ModelStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

#### 2.2.4.17 ArrayOfPropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfPropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
      type="tns5:PropertyStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

#### 2.2.4.18 ArrayOfstring

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

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

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

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

## 2.2.4.19 ArrayOfTypeDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="ArrayOfTypeDescriptorStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
      nillable="true" type="tns5:TypeDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>
```

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

## 2.2.4.20 ArrayOfunsignedInt

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

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

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

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

## 2.2.4.21 AssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationGroupStruct** complex type contains information about an AssociationGroup. Each Association referenced by the AssociationReferences contained by the AssociationGroup is identified by the values in the same index of the lists **associationEntityNames**, **associationEntityNamespaces**, **associationNames** and **associationIds**.

```
<xs:complexType name="AssociationGroupStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0" name="associationEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0" name="associationIds" nillable="true" type="q9:ArrayOfunsignedInt"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0" name="associationNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

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

```

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

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

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

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

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

#### 2.2.4.22 AssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

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

```

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

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



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

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

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

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

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

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

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

**partitionId:** The **empty GUID**.<4>

## 2.2.4.23 AssociationStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="AssociationStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MethodInstanceStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

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

```

**associationGroupId:** The MetadataObjectId of the AssociationGroup which the Association is referenced by. If the Association is referenced by an AssociationGroup, the value of this element MUST be the MetadataObjectId of the referencing AssociationGroup. Otherwise the value of this element MUST be 0. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

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

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

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

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

#### 2.2.4.24 BdcException

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

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

```

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

```

#### 2.2.4.25 BdcExceptionState

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

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

```

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

```

```

    <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

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

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

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

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

#### 2.2.4.26 ComplexValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

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

```

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

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

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

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

#### 2.2.4.27 ConcurrentModificationExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ConcurrentModificationExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

#### 2.2.4.28 DataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="DataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="active" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
        <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q1:Version"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

**lobSystemId:** The MetadataObjectId of the LobSystem which contains this DataClass.

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

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

**version:** The version of the DataClass.

#### 2.2.4.29 DefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="DefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:ComplexValueStruct">
      <xs:sequence>

```

```

        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

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

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

### 2.2.4.30 DuplicateMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="DuplicateMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:tns3="Microsoft.SharePoint.BusinessData.SharePoint"
base="tns3:MetadataException">
            <xs:sequence>
                <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

**DuplicateFieldName:** The name of the attribute of the MetadataObject that was supposed to be unique but was duplicated.

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

### 2.2.4.31 EntityStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

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

```

```

<xs:complexContent mixed="false">
  <xs:extension base="tns5:DataClassStruct">
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
      <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

**description:** The description of the Entity. This element SHOULD [<5>](#) be present.

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

### 2.2.4.32 ExceededMetadataObjectLimitExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ExceededMetadataObjectLimitExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="Limit" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

### 2.2.4.33 Exception

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

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

```

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

```

```

    </xs:sequence>
    <xs:attribute ref="ser:FactoryType"/>
</xs:complexType>

```

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

#### 2.2.4.34 FilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="FilterDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="filterType" type="tns1:FilterType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**filterField:** The **field (4)** affected by the FilterDescriptor. The value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section [2.1.5.5](#).

**filterType:** The [FilterType \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel\)](#) of a FilterDescriptor.

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

#### 2.2.4.35 IdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="IdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

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

### 2.2.4.36 InvalidMetadataObjectExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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



```

<xs:complexType name="InvalidMetadataObjectExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tms3="Microsoft.BusinessData.SharePoint"
base="tms3:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

### 2.2.4.37 InvalidMetadataPropertyExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="InvalidMetadataPropertyExceptionState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tms3="Microsoft.BusinessData.SharePoint"
base="tms3:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

### 2.2.4.38 InvalidOperationException

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

The **InvalidOperationException** complex type is an error complex type that contains information about a protocol-server-side error because of an attempt to perform an operation that is invalid for

the current state of the protocol server. The complex type MUST only be included as part of a SOAP fault as specified in **Complex Types** (section [2.2.4](#)).

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

### 2.2.4.39 LobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="LobSystemInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

### 2.2.4.40 LobSystemStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="LobSystemStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel"
          minOccurs="0" name="systemType" type="tns1:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**systemType:** The **SystemType** (section [2.2.5.9](#)) of the **LobSystem**.

### 2.2.4.41 LocalizedNameStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

```

<xs:sequence>
  <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
  <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
  <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
  <xs:element minOccurs="0" name="vlu" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

**lcid:** The **LCID** representing the locale of the localized name. This element **MUST** be present.

**metadataObjectId:** The MetadataObjectId of the MetadataObject that contains the localized name. This element **MUST** be present. The value of this element **MUST** be in [1, 0x7fffffff] range. [<6>](#)

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

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

#### 2.2.4.42 MetadataException

**Namespace:** Microsoft.BusinessData.SharePoint

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

```

<xs:complexType name="MetadataException" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
    <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**explicitMessage:** An implementation-specific error message detailing the constraint violation.

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

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

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

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

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

### 2.2.4.43 MetadataObjectNotFoundExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="MetadataObjectNotFoundExceptionState"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:tns3="Microsoft.SharePoint.BusinessData.SharePoint"
      base="tns3:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

### 2.2.4.44 MetadataObjectStruct

**Namespace:** Microsoft.SharePoint.BusinessData

This structure contains the attributes of the MetadataObject.

```
<xs:complexType name="MetadataObjectStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
    <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

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

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

Value	Description
False	The MetadataObject is infrequently used.
True	The MetadataObject is frequently used.

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

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

**partitionId:** The empty GUID.

#### 2.2.4.45 MethodInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```
<xs:complexType name="MethodInstanceStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
          xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

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

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

**methodInstanceType:** The type of the MethodInstance. This element MUST be present. The value of this element MUST NOT be NULL. The value MUST be a **methodInstanceType** from the http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel namespace.

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

#### 2.2.4.46 MethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

```

<xs:extension base="tns5:MetadataObjectStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
    <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

**entityId:** The MetadataObjectId of the Entity that contains the Method. This element MUST be present.

**isStatic:** A value which specifies if the Method is associated with an **EntityInstance**. This element MUST be present. The value MUST be in the following table.

Value	Description
False	The Method operates in the context of a specific EntityInstance.
True	The Method operates out of the context of a specific EntityInstance.

**lobName:** The name of the line-of-business (LOB) system operation that is represented by this Method. This element MUST be present. The value of this element MUST NOT be NULL. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, an LOB system operation named "GetCus\_1" can be represented by a Method with name equal to "Get Customer". The lobName element of this Method needs to be "GetCus\_1".

#### 2.2.4.47 ModelStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ModelStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

#### 2.2.4.48 PackageFormatExceptionState

**Namespace:** Microsoft.SharePoint.BusinessData

The **PackageFormatExceptionState** complex type is an error complex type that contains information about a protocol-server-side error because a specified XML does not conform to [\[MS-BDCMFFS\]](#) or the MetadataModel contained within the specified XML conforming to [\[MS-BDCMFFS\]](#) having invalid configuration of MetadataObjects or their attributes. The complex type MUST only be included as part of a SOAP fault as specified in **Complex Types** (section [2.2.4](#))

```

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

```

```

<xs:sequence>
  <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
  <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q9:ArrayOfString"/>
  <xs:element xmlns:tns3="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="tns3:MetadataException"/>
  <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

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

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

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

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

#### 2.2.4.49 ParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

This structure contains the information about a Parameter.

```

<xs:complexType name="ParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

**methodId:** Specifies the MetadataObjectId of the Parameter.

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

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

#### 2.2.4.50 PropertyStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="PropertyStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**metadataObjectId:** The MetadataObjectId of the property.

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

**settingId:** The Setting which contains the property. The value MUST be NULL if the Setting is the default Setting. The value MUST NOT be NULL if the Setting is not the default Setting.

**typeName:** The implementation-specific name for the data type of the value of the property.

### 2.2.4.51 ProxyGenerationResult

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

The **ProxyGenerationResult** complex type contains information about Business Logic Modules [<7>](#).

```

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

```

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

**fingerprint:** An implementation-specific identifier of the Business Logic Modules. If the bytes that constitute two Business Logic Modules are identical, their fingerprint values MUST also be identical.

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

### 2.2.4.52 SystemException

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

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

```

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

```



```

    <xs:extension base="q1:Exception"/>
  </xs:complexContent>
</xs:complexType>

```

## 2.2.4.53 TypeDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="TypeDescriptorStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
        <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
        <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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

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

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

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

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

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

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

**filterDescriptorId:** The MetadataObjectId of the FilterDescriptor associated with the TypeDescriptor. If a FilterDescriptor is associated with the TypeDescriptor, the value MUST be the MetadataObjectId of the associated FilterDescriptor. Otherwise the value of this element MUST be 0. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

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

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

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

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

**identifierReferenceName:** The name of the Identifier referenced by the TypeDescriptor. If the TypeDescriptor references an Identifier of an Entity that is not active, the value MUST be the name

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

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

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

**parentTypeDescriptorId:** The MetadataObjectId of the parent TypeDescriptor that contains the TypeDescriptor. If the TypeDescriptor is a root TypeDescriptor, the value MUST be 0. Otherwise the value MUST be the MetadataObjectId of the parent TypeDescriptor that contains the TypeDescriptor. The value of this element MUST be in [0, 0x7fffffff] range. This element MUST be present.

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

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

rule = convertRule / normalizeRule

convertRule = %x54 fromType HTAB toType CRLF Culture

normalizeRule = %x44 ( local / unspecified / UTC)

UTC = %x42

local = %x43

unspecified = %x44

fromType = AssemblyQualifiedName
toType = AssemblyQualifiedName
```

**Culture:** Implementation specific<8> name of the culture.

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

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

where **LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

**TypeName:** The name of the data type of the value.<9> The format is as specified in [\[MS-NRTP\]](#) section 2.2.1.2.

The rules MUST be stored in order from left to right, where the leftmost rule is first to one to run. Occurrence of a convertRule indicates that the protocol client MUST interpret this rule as a cast between fromType and toType. Occurrence of a normalizeRule indicates that the protocol client MUST interpret this rule as converting the time zone of a time value to **UTC** from the time zone specified. The specified time zone values are indicated by values UTC, local, and unspecified, which correspond to UTC time zone, local time zone, and UTC time zone without time zone information respectively.

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

- If the Parameter that contains this TypeDescriptor contains a property with name "TypeReflectorTypeName" and type "System.String", the module specified by the identifier represented by the string property value MUST be used. The identifier MUST be the **AssemblyQualifiedName** in the following format described with ABNF notation as specified in [\[RFC5234\]](#):

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

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

**TypeName:** The name of the data type of the value. [<10>](#) The format is as specified in [\[MS-NRTP\]](#), section [2.1.1.1.2](#).

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

If the previous conditions are not met, an implementation-specific [<11>](#) module MUST be used.

## 2.2.4.54 Version

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

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

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

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

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

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

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

## 2.2.5 Simple Types

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

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

### 2.2.5.1 CacheUsage

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

Specifies how the protocol client accesses EntityInstance data to perform create, read, update and delete operations, when this information is not provided explicitly by means that are beyond this protocol specification. If the protocol client does not have the capability to cache EntityInstance data, the protocol client MUST ignore this value.

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

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

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

### 2.2.5.2 char

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

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

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

### 2.2.5.3 DirectionType

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

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

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

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

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

## 2.2.5.4 duration

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

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

```
<xs:simpleType name="duration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*))?S)?"/>
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
  </xs:restriction>
</xs:simpleType>
```

## 2.2.5.5 FilterType

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

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

```
<xs:simpleType name="FilterType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Comparison"/>
    <xs:enumeration value="LastId"/>
    <xs:enumeration value="Limit"/>
    <xs:enumeration value="PageNumber"/>
    <xs:enumeration value="Password"/>
    <xs:enumeration value="SsoTicket"/>
    <xs:enumeration value="Timestamp"/>
    <xs:enumeration value="UserContext"/>
    <xs:enumeration value="Username"/>
    <xs:enumeration value="UserProfile"/>
    <xs:enumeration value="Wildcard"/>
    <xs:enumeration value="Input"/>
    <xs:enumeration value="Output"/>
    <xs:enumeration value="InputOutput"/>
    <xs:enumeration value="Batching"/>
    <xs:enumeration value="BatchingTermination"/>
    <xs:enumeration value="UserCulture"/>
    <xs:enumeration value="ActivityId"/>
    <xs:enumeration value="Sorting"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
Comparison	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>ComparisonFilter</b> .
LastId	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>LastIdFilter</b> .
Limit	Indicates that the protocol client MUST interpret the FilterDescriptor as a <b>LimitFilter</b> .

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

### 2.2.5.6 guid

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

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

```
<xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:pattern value="\da-fA-F}{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```



```

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

```

### 2.2.5.7 MethodInstanceType

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

This simple type contains information about the type of a MethodInstance.

```

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

```

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

Value	Meaning
Finder	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Finder</b> .
SpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a <b>SpecificFinder</b> .
GenericInvoker	Indicates that the protocol client MUST interpret the MethodInstance as a <b>GenericInvoker</b> .
IdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a <b>IdEnumerator</b> .
Scalar	Indicates that the protocol client MUST interpret the MethodInstance as a <b>Scalar</b> .
AccessChecker	Indicates that the protocol client MUST interpret the MethodInstance

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

### 2.2.5.8 PackageContents

**Namespace:** Microsoft.SharePoint.BusinessData

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

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

```

<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Model"/>
    <xs:enumeration value="LocalizedNames"/>
    <xs:enumeration value="Permissions"/>
    <xs:enumeration value="Properties"/>
    <xs:enumeration value="InlineProxies"/>
    <xs:enumeration value="All"/>
  </xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>

```

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

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

### 2.2.5.9 SystemType

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

The type of line-of-business (LOB) system that an **LobSystem** is representing.

```

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

```

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

Value	Meaning
Database	The represented LOB system is a database.
WebService	The represented LOB system is a <b>Web service</b> .
Custom	The represented LOB system is a LOB system for which business logic external to the protocol implementation manages the connection and data transfer.
Wcf	The represented LOB system is a service for which the communication address, the binding, and the contract are specified.
DotNetAssembly	The represented LOB system is a Business Logic Module. <a href="#">&lt;12&gt;</a>
OData	The represented LOB system is an <b>OData service</b> that exposes data as per the OData protocol.

### 2.2.5.10 TypeDescriptorFlags

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

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

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

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

Value	Meaning
None	No flags exist.
CreatorField	This TypeDescriptor MUST be considered as a field (4) for calling a Creator.
UpdaterField	This TypeDescriptor MUST be considered as a field (4) for calling an Updater.
PreUpdaterField	This TypeDescriptor MUST be used to send the latest value received from the line-of-business (LOB) system corresponding to the field (4) with the same name as this TypeDescriptor when calling an Updater.

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

### 2.2.6 Attributes

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

### 2.2.7 Groups

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

### 2.2.8 Attribute Groups

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

## 3 Protocol Details

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

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

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

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

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

### 3.1 Server Details

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

#### 3.1.1 Abstract Data Model

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

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

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

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

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

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

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

#### **Property**

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

#### **Localized name**

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

#### **Access control entry**

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

#### **MetadataObject**

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

## Model

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

## LobSystem

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, and **SystemType**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **DataClasses**, zero or more **Entities**, zero or more **LobSystemInstances**, and zero or more Business Logic Modules.

## LobSystemInstance

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

## DataClass

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **Active**, **LobSystemId**, **ModelId**, **Namespace**, and **Version**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **Methods**, and zero or more **MethodInstances**.
- Contained by exactly one **LobSystem**.
- At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

## Entity

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **Active**, **LobSystemId**, **ModelId**, **Namespace**, **CacheUsage**, **Description**, and **EstimatedInstanceCount**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **Methods**, zero or more **MethodInstances**, zero or more **Identifiers**, zero or more **Actions**, and zero or more **AssociationGroups**.
- Contained by exactly one **LobSystem**.
- References an **Action** as its default **Action**.
- At most one **DataClass** or **Entity** is active across all **DataClasses** and **Entities** that have the same name and namespace.

## Identifier

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



- Contained by exactly one **Entity**.

### Method

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **LobName**, **IsStatic**, and **EntityId**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **FilterDescriptors**, zero or more **Parameters**, zero or more **MethodInstances**, and zero or more **Associations**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.

### MethodInstance

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **MethodId**, **MethodInstanceType**, **ReturnTypeDescriptorId**, and **IsDefault**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- References zero or one **TypeDescriptors**.
- Contained by exactly one **Method**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.
- If the **MethodInstance** has a **ReturnTypeDescriptor** the **MethodInstance** references the **TypeDescriptor** that corresponds to the **ReturnTypeDescriptor**. Otherwise, the **MethodInstance** MUST NOT reference any **TypeDescriptors**.
- The **Type** attribute is NOT "AssociationNavigator", "Associator", "Disassociator", "BulkAssociationNavigator", or "BulkAssociatedIdEnumerator".

### Association

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **MethodId**, **MethodInstanceType**, **ReturnTypeDescriptorId**, **IsDefault**, **AssociationGroupId**, **DestinationEntityName**, **DestinationEntityNamespace**, **SourceEntityNames**, and **SourceEntityNamespaces**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- References zero or one **TypeDescriptors**.
- References two or more **Entities**.
- Contained by exactly one **Method**.
- Contained by either exactly one **Entity** or exactly one **DataClass**.
- If the **Association** has a **ReturnTypeDescriptor**, the **Association** references the **TypeDescriptor** that corresponds to the **ReturnTypeDescriptor**. Otherwise, the **Association** references no **TypeDescriptors**.
- References the **Entity** that corresponds to the destination of the **Association**.
- References the **Entities** that correspond to the sources of the **Association**.
- Does not reference an **Entity** if that **Entity** is not a source or destination for the **Association**.

- The **Type** attribute is "AssociationNavigator," "Associator," "Disassociator," "BulkAssociationNavigator," or "BulkAssociatedIdEnumerator."

### Parameter

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **Direction**, **PartitionId**, **MethodId**, **OrdinalNumber**, and **RootTypeDescriptorId**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **TypeDescriptors**.
- Contained by exactly one **Method**.
- If the **Parameter** contains one or more **TypeDescriptors**, exactly one **TypeDescriptor** is not contained by any other **TypeDescriptor**. The **TypeDescriptor** that is not contained by any other **TypeDescriptor** corresponds to the **ReturnTypeDescriptor** of the **Parameter**.

### TypeDescriptor

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **AssociationId**, **AssociationReferenceEntityName**, **AssociationReferenceEntityNamespace**, **AssociationReferenceName**, **ChildrenContainRules**, **ContainsFilterDescriptor**, **ContainsIdentifier**, **ContainsReadOnly**, **FilterDescriptorId**, **Flags**, **IdentifierId**, **IdentifierReferenceEntityName**, **IdentifierReferenceEntityNamespace**, **LobName**, **ParameterId**, **ParentTypeDescriptorId**, **SerializedRules**, and **TypeName**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, zero or more **TypeDescriptors**, and zero or more **DefaultValues**.
- References zero or one **Identifiers**, zero or one **Associations**, and zero or one **FilterDescriptors**.
- If the **TypeDescriptor** references a **FilterDescriptor**, that **FilterDescriptor** references the **TypeDescriptor**.
- Contained by exactly one **Parameter** or exactly one **TypeDescriptor**.

### FilterDescriptor

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **FilterField**, **FilterType**, and **MethodId**.
- Contains zero or more **Properties**, zero or more localized names, and zero or more ACEs.
- Contained by exactly one **Method**.
- References one or more **TypeDescriptors**.
- If the **FilterDescriptor** references a **TypeDescriptor**, that **TypeDescriptor** references the **FilterDescriptor**.

### DefaultValue

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

## AssociationGroup

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, and **EntityId**, **AssociationEntityNames**, **AssociationEntityNamespaces**, **AssociationIds**, and **AssociationNames**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **AssociationReferences**.
- Contained by exactly one **Entity**.

## AssociationReference

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

## Action

- Has fields named **Id**, **Name**, **IsCached**, **Object version**, **PartitionId**, **EntityId**, **ImageUrl**, **IsOpenedInNewWindow**, **Position**, and **Url**.
- Contains zero or more **Properties**, zero or more localized names, zero or more ACEs, and zero or more **ActionParameters**.
- Contained by exactly one **Entity**.

## ActionParameter

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

## Cache Version Stamp

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

### 3.1.2 Timers

None.

### 3.1.3 Initialization

None.

### 3.1.4 Message Processing Events and Sequencing Rules

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

The specifications of the operations in this section identify the conditions under which the protocol server MUST respond with corresponding error complex types. In addition, if the protocol server encounters an error specific to its implementation, it MAY respond with any fault listed in the WSDL for its operation. The responses MUST be formatted as SOAP faults, using error complex types serialized as specified in section [2.2.4](#). The different error complex types have the following meanings:

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The protocol server encounters an invalid argument value while performing implementation-specific operations.
<b>ArgumentNullException</b> (section <a href="#">2.2.4.8</a> )	While performing implementation-specific operations, the protocol server encounters a NULL value for an argument that does not accept NULL values.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The protocol server encounters an argument with a value outside the range of permissible values while performing implementation-specific operations.
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The protocol server encounters an unrecoverable error while performing implementation-specific operations, or encounters a violation of constraints on the metadata store.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The protocol server attempts an implementation-specific operation that is invalid for the current state of the protocol server.
<b>MetadataException</b> (section <a href="#">2.2.4.42</a> )	The protocol server discovers a violation of a syntactic or semantic constraint on a MetadataModel while performing implementation-specific operations.
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	Within an implementation-specific operation, the protocol server encounters XML that does not conform to the format specified in <a href="#">[MS-BDCMFFS]</a> , or XML conforming to <a href="#">[MS-BDCMFFS]</a> having invalid configuration of MetadataObjects or their attributes.

For the following operations, the protocol client MAY [<13>](#) specify values for a subset of the elements of the complex types that inherit from **MethodInstanceStruct** (section [2.2.4.45](#)), including **MethodObjectStruct** (section [2.2.4.44](#)) itself. The protocol server MUST NOT return a fault for this condition. Unless otherwise specified, the protocol client MUST specify the values of the **Id** and **PartitionId** elements of complex types when used as parameters in the following operations:

- [AddEntityToModel](#)
- [ClearLocalizedNames](#)
- [ClearProperties](#)
- [CopyAclAcrossChildren](#)
- [CopyAclToSetting](#)
- [DeleteNoCascade](#)
- [DeleteProxyAssemblyForLobSystem](#)
- [ExportPackage](#)

- [GetAccessControlEntries](#)
- [GetAllLocalizedNamesForMetadataObjectStruct](#)
- [GetAllPropertiesForMetadataObjectStruct](#)
- [GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor](#)
- [GetFieldTypeDescriptorsByMethodInstance](#)
- [GetLobSystemDataByLobSystem](#)
- [GetTypeReflectorTypeNameForParameter](#)
- [ImportPackage](#)
- [ImportPackageWithProgress](#)
- [MetadataObjectCreate](#)
- [MetadataObjectMergeXml](#)
- [MetadataObjectReadXml](#)
- [MetadataObjectWriteXml](#)
- [ModelReadXml](#)
- [ReadSlicedXml](#)
- [RemoveEntityFromModel](#)
- [RemoveLocalizedName](#)
- [RemoveProperty](#)
- [SaveLocalizedName](#)
- [SaveProperty](#)
- [SetAccessControlEntries](#)
- [SetDefaultActionForEntity](#)
- [TypeDescriptorCreate](#)
- [TypeDescriptorMergeXml](#)
- [TypeDescriptorReadXml](#)

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

- If the object version of the **MetadataObject** is 2147483646, the object version MUST be set to 0.
- Otherwise, the object version MUST be incremented by 1.

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

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

Operation	Description
<b>Activate</b>	This operation is used to set the specified Entity active.
<b>AddAssociationReferenceToAssociationGroup</b>	This operation is used to create the specified AssociationReference in the specified AssociationGroup.
<b>AddEntityToModel</b>	This operation is used to add a reference to the specified Entity to the specified Model.
<b>BulkSwitchActiveOrValidate</b>	This operation is used to change the active version of the specified set of Entities, or validate the specified <b>Entities</b> for the purpose of changing the active versions and identify related errors.
<b>CheckPathInMethodInstances</b>	The <b>CheckPathInMethodInstances</b> operation retrieves whether the specified path, which conforms to [MS-BDCMFFS] section <a href="#">2.1.5.5</a> , corresponds to a TypeDescriptor in a <b>View</b> of the MethodInstances of the specified type contained by the specified DataClass, along with the MetadataObjectId of one such <b>MethodInstance</b> , if one exists.
<b>ClearLocalizedNames</b>	This operation is used to remove all localized names of the specified MetadataObject from the specified Setting.
<b>ClearProperties</b>	This operation is used to remove all Properties of the specified MetadataObject from the specified Setting.
<b>CopyAclAcrossChildren</b>	This operation is used to clear the ACEs of the descendent MetadataObjects of a specified <b>MetadataObject</b> , then copy the

Operation	Description
	<p>ACEs of the specified <b>MetadataObject</b> to the descendent <b>MetadataObjects</b>. A given <b>MetadataObject</b> is a descendent of the specified <b>MetadataObject</b> if the <b>MetadataObject</b> that contains the given <b>MetadataObject</b> is also a descendent of the specified <b>MetadataObject</b>, or the <b>MetadataObject</b> is contained by the specified <b>MetadataObject</b> itself.</p> <p>If the specified <b>MetadataObject</b> is a MetadataCatalog, the protocol server MUST NOT change the ACEs of any LobSystem and their descendent <b>MetadataObjects</b> if the <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the <b>LobSystem</b>.</p>
<b>CopyAclAcrossChildrenForSetting</b>	<p>This operation is used to clear the ACEs in a specified Setting on the descendent MetadataObjects of the specified <b>MetadataObject</b>, then copy the ACEs in the specified <b>Setting</b> on the specified <b>MetadataObject</b> to the descendent <b>MetadataObjects</b>. A given <b>MetadataObject</b> is a descendent of the specified <b>MetadataObject</b> if the <b>MetadataObject</b> that contains the given <b>MetadataObject</b> is also a descendent of the specified <b>MetadataObject</b>, or the <b>MetadataObject</b> is contained by the specified <b>MetadataObject</b> itself.</p> <p>If the specified <b>MetadataObject</b> is a MetadataCatalog, the protocol server MUST NOT change the ACEs of any LobSystem and their descendent <b>MetadataObjects</b> if the security principal (2) in whose context the protocol client is operating is not authorized to edit the <b>LobSystem</b>.</p>
<b>CopyAclToSetting</b>	<p>This operation is used to delete the ACEs of the specified non-default Setting and the specified MetadataObject, then copy the ACEs of the default <b>Setting</b> and the specified <b>MetadataObject</b> to the specified <b>Setting</b> and the specified <b>MetadataObject</b>.</p>
<b>Deactivate</b>	<p>This operation is used to set the active version of an Entity as not active.</p>
<b>Delete</b>	<p>This operation is used to delete the specified MetadataObject.</p>
<b>DeleteAssociationReferenceFromAssociationGroup</b>	<p>This operation is used to remove an AssociationReference from an AssociationGroup by deleting the <b>AssociationReference</b>.</p>
<b>DeleteDefaultValueForTypeDescriptor</b>	<p>This operation is used to delete the DefaultValue of the specified TypeDescriptor</p>

Operation	Description
	for the specified MethodInstance.
<b>DeleteNoCascade</b>	This operation is used to delete the specified MetadataObject without deleting the <b>MetadataObjects</b> it references.
<b>DeleteProxyAssemblyForLobSystem</b>	This operation is used to delete a Business Logic Module<15> associated with the specified LobSystem.
<b>EntityCreate</b>	This operation is used to create an Entity in the specified LobSystem. The operation MUST copy ACEs from the specified <b>LobSystem</b> to the created <b>Entity</b> . If a Model is specified, the operation MUST associate the created <b>Entity</b> with the specified <b>Model</b> . Otherwise the created <b>Entity</b> is not referenced by any <b>Model</b> .
<b>ExportPackage</b>	<p>This operation is used to retrieve an <b>XML</b> representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> <li>▪ MetadataObjects contained by the specified MetadataModel along with their Properties, localized names and ACEs, if the "Model" value is specified for the <b>packageContents</b> element. The XML MUST conform to <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34.</li> <li>▪ Localized names, Properties, and ACEs corresponding to <b>MetadataObjects</b> contained by the specified <b>MetadataModel</b>, if the "Model" value is not specified for the <b>packageContents</b> element. The XML MUST conform to <a href="#">[MS-BDCMFFS]</a> section 2.2.3.28.</li> </ul> <p>If the specified <b>MetadataModel</b> contains LobSystems that the security principal (2) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those <b>LobSystems</b>, and MUST NOT contain other <b>MetadataObjects</b> contained by <b>MetadataObjects</b> that are not contained in the result for this reason.</p>
<b>GenerateProxyAssemblyForLobSystem</b>	This operation is used to force the protocol server to create an implementation-specific Business Logic Module<16> for the specified LobSystem to connect to the line-of-business (LOB) system described by the specified <b>LobSystem</b> . If a Business Logic Module is already available for the specified <b>LobSystem</b> this operation MUST NOT create another Business Logic Module and MUST



Operation	Description
	complete successfully.
<b>GetAccessControlEntries</b>	This operation is used to retrieve the ACEs for the specified MetadataObject from the specified Setting. If there are no ACEs for the specified <b>MetadataObject</b> from the specified <b>Setting</b> and the value of the <b>fallback</b> element is "true", the protocol server <b>MUST</b> retrieve ACEs for the specified <b>MetadataObject</b> from the default <b>Setting</b> .
<b>GetActionById</b>	This operation is used to retrieve the specified Action.
<b>GetActionParameterById</b>	This operation is used to retrieve the specified ActionParameter.
<b>GetActionParametersForAction</b>	This operation is used to retrieve the ActionParameters of the specified Action.
<b>GetActionsForEntity</b>	This operation is used to retrieve the Actions of the specified Entity.
<b>GetAllLocalizedNames</b>	This operation is used to retrieve all localized names of the specified MetadataObject.
<b>GetAllLocalizedNamesForMetadataObjectStruct</b>	This operation is used to retrieve all the localized names of the specified MetadataObject for the specified Setting.
<b>GetAllPartitionIds</b>	This operation is deprecated from the protocol and <b>MUST NOT</b> be called.
<b>GetAllProperties</b>	This operation is used to retrieve all the Properties of the specified MetadataObject and the specified Setting.
<b>GetAllPropertiesForMetadataObjectStruct</b>	This operation is used to retrieve all the Properties of the specified MetadataObject from the specified Setting.
<b>GetAssociationById</b>	This operation is used to retrieve the Association with the specified MetadataObjectId.
<b>GetAssociationGroupById</b>	This operation is used to retrieve the AssociationGroup with the specified MetadataObjectId.
<b>GetAssociationGroupsForEntity</b>	This operation is used to retrieve the AssociationGroups of the Entity with the specified MetadataObjectId.
<b>GetAssociationMembersInRole</b>	This operation is used to retrieve the source or destination Entities of the specified Association.
<b>GetAssociationReferencesForAssociationGroup</b>	This operation is used to retrieve the AssociationReferences contained by the

Operation	Description
	specified AssociationGroup.
<b>GetAssociationsForDataClass</b>	This operation is used to retrieve the Associations that are contained by the specified DataClass.
<b>GetAssociationsForEntityAndRole</b>	This operation is used to retrieve the Associations that references the specified Entity as <b>Association</b> source or <b>Association</b> destination.
<b>GetAssociationsForMethod</b>	This operation is used to retrieve the Associations that are contained by the specified Method.
<b>GetCacheInvalidationRecordsSince</b>	This operation is deprecated from the protocol and MUST NOT <a href="#">&lt;17&gt;</a> be called.
<b>GetChildTypeDescriptorsForTypeDescriptor</b>	This operation is used to retrieve the TypeDescriptors contained by the specified <b>TypeDescriptor</b> .
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b>	This operation is used to retrieve the TypeDescriptors that reference Identifiers and are descendent <b>TypeDescriptors</b> of the specified <b>TypeDescriptor</b> . A given <b>TypeDescriptor</b> is a descendent of the specified <b>TypeDescriptor</b> if the <b>TypeDescriptor</b> that contains the given <b>TypeDescriptor</b> is also a descendent of the specified <b>TypeDescriptor</b> , or the <b>TypeDescriptor</b> is contained by the specified <b>TypeDescriptor</b> itself. <a href="#">&lt;18&gt;</a>
<b>GetDataClassById</b>	This operation is used to retrieve the DataClass with the specified MetadataObjectId.
<b>GetDataClassesForSystem</b>	This operation is used to retrieve DataClasses contained by the specified LobSystem.
<b>GetDefaultValuesForTypeDescriptor</b>	This operation is used to retrieve the DefaultValues of the specified TypeDescriptor.
<b>GetEntitiesForAssociationAndRole</b>	This operation is used to retrieve the Entities performing the role of source or destination for the specified Association.
<b>GetEntitiesForSystem</b>	This operation is used to retrieve Entities of the specified LobSystem.
<b>GetEntitiesLikeNameAndNamespace</b>	This operation is used to retrieve the Entities that match the specified wildcard patterns for name and namespace. An <b>Entity</b> matches the pattern specified by <b>wildcardedName</b> if and only if <b>wildcardedName</b> matches the name of the

Operation	Description
	<p><b>Entity</b>, or the localized name of the <b>Entity</b> with LCID 0, or the localized name of the <b>Entity</b> with the LCID specified by <b>callerCultureLcid</b>.</p> <p>An <b>Entity</b> matches the pattern specified by <b>wildcardedNamespace</b> if and only if <b>wildcardedNamespace</b> matches the namespace of the <b>Entity</b>.</p>
<b>GetEntitiesReferencedByModelId</b>	This operation is used to retrieve Entities which are referenced by the specified Model.
<b>GetEntityById</b>	This operation is used to retrieve the Entity with the specified MetadataObjectId.
<b>GetEntityCount</b>	This operation retrieves the number of Entity elements that are contained by the specified LobSystem.
<b>GetEntityNameAndNamespacesForAssociationAndRole</b>	This operation is used to retrieve the names and namespaces of Entities which are referenced by the specified Association. Only <b>Entities</b> in the specified association <b>role</b> of source or destination are returned.
<b>GetEntityWithNameAndNamespace</b>	This operation is used to retrieve the active Entity with the specified name and namespace in the specified <b>Partition</b> .
<b>GetEntityWithNameAndNamespaceAndVersion</b>	This operation is used to retrieve the Entity with the specified name, namespace, and version.
<b>GetFieldTypeDescriptorsByMethodInstance</b>	This operation is used to retrieve TypeDescriptors that correspond to fields (4) for the MethodInstance with the specified name on the specified Entity.
<b>GetFilterDescriptorById</b>	This operation is used to retrieve the FilterDescriptor with the specified MetadataObjectId.
<b>GetFilterDescriptorsForMethod</b>	This operation is used to retrieve the FilterDescriptors contained by the specified Method.
<b>GetIdentifierById</b>	This operation is used to retrieve the Identifier with the specified MetadataObjectId.
<b>GetIdentifiersForEntity</b>	This operation is used to retrieve the Identifiers contained by the specified Entity.
<b>GetImportProgress</b>	This operation is used to retrieve the progress of an ImportPackageWithProgress operation, using the unique identifier provided by the client at the creation of the import operation.

Operation	Description
<b>GetLevelForTypeDescriptor</b>	This operation retrieves the depth of the specified TypeDescriptor in the <b>TypeDescriptor</b> tree that contains the specified <b>TypeDescriptor</b> . The <b>TypeDescriptor</b> tree for a specified <b>TypeDescriptor</b> consists of the specified <b>TypeDescriptor</b> with depth 0. Any <b>TypeDescriptor</b> that is contained by a <b>TypeDescriptor</b> in the <b>TypeDescriptor</b> tree is also in the tree with depth 1 plus the depth of the containing <b>TypeDescriptor</b> .
<b>GetLobSystemAllAssembliesBytes</b>	This operation is used to retrieve the Business Logic Modules associated with the specified LobSystem, if the systemType element of the specified <b>LobSystem</b> does not have the value "Custom". If the systemType element of the specified <b>LobSystem</b> has the value "Custom", the behavior of this operation is implementation-specific. <a href="#">&lt;19&gt;</a>
<b>GetLobSystemById</b>	This operation retrieves the LobSystem with the specified MetadataObjectId.
<b>GetLobSystemByName</b>	This operation is used to retrieve the specified LobSystem.
<b>GetLobSystemDataByLobSystem</b>	This operation is used to retrieve Business Logic Modules <a href="#">&lt;20&gt;</a> associated with the specified LobSystem.
<b>GetLobSystemInstanceById</b>	This operation is used to retrieve the LobSystemInstance with the specified MetadataObjectId.
<b>GetLobSystemInstancesForLobSystem</b>	This operation is used to retrieve the list of LobSystemInstances of the specified LobSystem. Only the <b>LobSystemInstances</b> that the security principal (2) in whose context the protocol client is operating is authorized to read <a href="#">&lt;21&gt;</a> are returned.
<b>GetLobSystemProxyAssemblyBytesByLobSystemId</b>	This operation is used to retrieve the implementation-specific Business Logic Module <a href="#">&lt;22&gt;</a> associated with the specified LobSystem.
<b>GetLobSystemsLikeName</b>	This operation is used to retrieve the LobSystems that match the specified wildcard pattern that the security principal (2) in whose context the protocol client is operating is authorized to read. <a href="#">&lt;23&gt;</a> An <b>LobSystem</b> matches the wildcard pattern specified by <b>searchLikeName</b> if and only if <b>searchLikeName</b> matches the name of the <b>LobSystem</b> , or the localized name of the <b>LobSystem</b> with LCID 0, or the localized name of the <b>LobSystem</b> with the LCID

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

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

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

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



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

Operation	Description
	<p><a href="#">BDCMFFS</a> section 2.2.3.28</p> <ul style="list-style-type: none"> <li>▪ Parameter element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.29.</li> </ul>
<b>MetadataObjectReadXml</b>	<p>This operation is used to create MetadataObjects in the metadata store, optionally along with their Properties, localized names, and ACEs, contained by the specified MetadataModel. This operation creates <b>Properties</b>, localized names, and ACEs for default Setting. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to <a href="#">[XML]</a> section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> <li>▪ Action element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.3.</li> <li>▪ ActionParameter element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.4.</li> <li>▪ Association element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.7.</li> <li>▪ AssociationGroup element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.8.</li> <li>▪ Entity element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.16.</li> <li>▪ Identifier element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.19.</li> <li>▪ FilterDescriptor element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.17.</li> <li>▪ LobSystem element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.23.</li> <li>▪ LobSystemInstance element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.24.</li> <li>▪ Method element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.30.</li> <li>▪ MethodInstance element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.31.</li> <li>▪ Parameter element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.37.</li> </ul>
<b>MetadataObjectWriteXml</b>	<p>The <b>MetadataObjectWriteXml</b> operation is used to retrieve an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> <li>▪ MetadataObjects contained by the</li> </ul>

Operation	Description
	<p>MetadataModel along with their Properties, localized names, and ACEs, if the "Model" value is specified for the <b>packageContents</b> element. The XML MUST conform to <a href="#">[MS-BDCMFFS]</a> section 2.1.</p> <ul style="list-style-type: none"> <li>Localized names, <b>Properties</b>, and ACEs corresponding to <b>MetadataObjects</b> contained by the <b>MetadataModel</b>, if the "Model" value is not specified for the <b>packageContents</b> element. The XML MUST conform to <a href="#">[MS-BDCMFFS]</a> section 2.2.</li> </ul> <p>The <b>MetadataModel</b> used for this operation MUST contain the specified <b>MetadataObject</b>, and other <b>MetadataObjects</b> that are contained by the <b>MetadataModel</b>; it MUST NOT contain any other <b>MetadataObjects</b>.</p> <p>If the specified <b>MetadataModel</b> contains LobSystems that the security principal (2) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those <b>LobSystems</b>, and MUST NOT contain other <b>MetadataObjects</b> contained by <b>MetadataObjects</b> that are not contained in the result for this reason.</p>
<b>ModelReadXml</b>	<p>This operation is used to create MetadataObjects contained by the specified MetadataModel along with their Properties, localized names, and ACEs in the metadata store. The <b>MetadataModel</b> MUST be specified as an XML that conforms to the Business Data Connectivity Model File Format as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34. If the <b>MetadataModel</b> contains an LobSystem that has the same name and type as an <b>LobSystem</b> in the metadata store, the <b>LobSystem</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all LobSystemInstances contained by that <b>LobSystem</b> and <b>Properties</b>, localized names, and ACEs of the ignored <b>MetadataObjects</b>. If the <b>MetadataModel</b> contains an Entity that has the same name, namespace and version as an <b>Entity</b> in the metadata store, and if the names of the <b>LobSystems</b> that contain these <b>Entities</b> are identical, the <b>Entity</b> in the <b>MetadataModel</b> MUST be ignored by the protocol server along with all <b>MetadataObjects</b> contained by the <b>Entity</b> or other ignored <b>MetadataObjects</b> and the <b>Properties</b>,</p>

Operation	Description
	localized names, and ACEs of the ignored <b>MetadataObjects</b> .
<b>ReadSlicedXml</b>	This operation is deprecated from the protocol and MUST NOT be called.
<b>RemoveEntityFromModel</b>	This operation is used to remove the reference to the specified Entity from the specified Model.
<b>RemoveLocalizedName</b>	This operation is used to remove the localized name with the specified LCID from the specified MetadataObject.
<b>RemoveProperty</b>	This operation is used to remove the specified Property from the specified MetadataObject.
<b>SaveLocalizedName</b>	This operation is used to add or replace a localized name for the specified MetadataObject. If a localized name with the same LCID as the specified LCID already exists for the specified <b>MetadataObject</b> , the protocol server MUST replace the localized name of the specified <b>MetadataObject</b> with the specified localized name.
<b>SaveProperty</b>	This operation is used to add or replace a <b>Property</b> for the specified MetadataObject. If a <b>Property</b> with the same name as the specified <b>Property</b> already exists for the specified <b>MetadataObject</b> , the protocol server MUST replace the <b>Property</b> of the <b>MetadataObject</b> with the specified <b>Property</b> .
<b>SetAccessControlEntries</b>	This operation is used to set an <b>access control list (ACL)</b> to the specified MetadataObject. The protocol server MUST delete all ACEs of the specified <b>MetadataObject</b> for the specified Setting, and then adds the specified ACEs to the specified <b>MetadataObject</b> .
<b>SetDefaultActionForEntity</b>	This operation is used to set the default Action for the specified Entity.
<b>SetDefaultValuesForTypeDescriptor</b>	This operation is used to set the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the <b>typeDescriptorId</b> element of the specified DefaultValueStruct (section <a href="#">2.2.4.29</a> ) complex type for the MethodInstance with the <b>MetadataObjectId</b> specified by the <b>methodInstanceId</b> element of the specified <b>DefaultValueStruct</b> (section <a href="#">2.2.4.29</a> ).
<b>SetLobSystemDataByLobSystemId</b>	This operation is deprecated from the protocol and MUST NOT be called.

Operation	Description
<b>TypeDescriptorCreate</b>	This operation is used to create a TypeDescriptor in the metadata store.
<b>TypeDescriptorMergeXml</b>	This operation is used to merge the Properties and localized names contained by the TypeDescriptors in the specified MetadataModel into an existing <b>TypeDescriptor</b> in the metadata store. The <b>MetadataModel</b> MUST be specified as a Well-Formed External Parsed Entity according to <a href="#">[XML]</a> section 4.3.2 and MUST have as a root element the <b>TypeDescriptor</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.34.
<b>TypeDescriptorReadXml</b>	This operation is used to create the TypeDescriptors contained by the specified MetadataModel, along with their Properties and localized names, in the metadata store. The <b>MetadataModel</b> MUST be specified as a Well-Formed External Parsed Entity according to <a href="#">[XML]</a> section 4.3.2 and MUST have as a root element the <b>TypeDescriptor</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.43.
<b>Update</b>	This operation is used to update a MetadataObject in the metadata store.
<b>WriteSlicedXml</b>	This operation is deprecated from the protocol and MUST NOT <a href="#">&lt;26&gt;</a> be called.

### 3.1.4.1 Activate

This operation is used to set the specified Entity active.

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

```
<wsdl:operation name="Activate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate" message="tns6:BusinessDataCatalogSharedService_Activate_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateResponse"
message="tns6:BusinessDataCatalogSharedService_Activate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionHandler" name="ArgumentOutOfRangeExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionHandler_Fault
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateBdcExceptionHandler" name="BdcExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_Activate_BdcExceptionHandler_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionExceptionHandler" name="InvalidOperationExceptionExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionExceptionHandler_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionHandler" name="MetadataExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_Activate_MetadataExceptionHandler_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionExceptionHandler" name="PackageFormatExceptionExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionExceptionHandler_Fault
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_Activate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Activate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (1)</a> in whose context the protocol client is operating is not authorized to edit the specified <b>Entity</b> .
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>Entity</b> has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the <b>Entity</b> . For example, this error can be triggered when one context reads the given <b>Entity</b> , after which another context updates the same <b>Entity</b> , and then the original context tries to update.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The operation cannot be performed for one of the following reasons: <ul style="list-style-type: none"> <li>▪ The specified <b>Entity</b> or another version of the specified <b>Entity</b> is already active.</li> <li>▪ The protocol server encountered reference errors as</li> </ul>

Error complex type	Condition
	specified in section <a href="#">3.1.4.4.3.2</a> when performing this operation.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>Entity</b> does not exist.

### 3.1.4.1.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_Activate_InputMessage</b>	The request WSDL message for the <b>Activate</b> WSDL operation.
<b>BusinessDataCatalogSharedService_Activate_OutputMessage</b>	The response WSDL message for the <b>Activate</b> WSDL operation.

#### 3.1.4.1.1.1 BusinessDataCatalogSharedService\_Activate\_InputMessage

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

The **SOAP action** value is:

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

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

#### 3.1.4.1.1.2 BusinessDataCatalogSharedService\_Activate\_OutputMessage

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

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

### 3.1.4.1.2 Elements

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

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

#### 3.1.4.1.2.1 Activate

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

```

<xs:element name="Activate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**entityStruct:** The specified Entity.

### 3.1.4.1.2.2 ActivateResponse

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

```

<xs:element name="ActivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ActivateResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**ActivateResult:** The activated Entity.

### 3.1.4.1.3 Complex Types

None.

### 3.1.4.1.4 Simple Types

None.

### 3.1.4.1.5 Attributes

None.

### 3.1.4.1.6 Groups

None.

### 3.1.4.1.7 Attribute Groups

None.

## 3.1.4.2 AddAssociationReferenceToAssociationGroup

This operation is used to create the specified AssociationReference in the specified AssociationGroup.

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



```

<wsdl:operation name="AddAssociationReferenceToAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroup"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outp
utMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argu
mentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argu
mentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argu
mentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcE
xceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inva
lidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Meta
dataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          </wsdl:fault>
        </wsdl:fault>
      </wsdl:fault>
    </wsdl:fault>
  </wsdl:fault>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol

server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the specified <b>AssociationGroup</b> .
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>AssociationGroup</b> has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the <b>AssociationGroup</b> . For example, this error can be raised when one context reads the <b>AssociationGroup</b> , another context updates the same <b>AssociationGroup</b> , and then the original context tries to update.
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	Another <b>AssociationReference</b> in the specified <b>AssociationGroup</b> references the Association that is referenced by the specified <b>AssociationReference</b> .
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>AssociationGroup</b> already contains the implementation-specific maximum number of <b>AssociationReferences</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The operation cannot be performed because Entity containing the <b>AssociationGroup</b> is active.

### 3.1.4.2.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage</b>	The request WSDL message for the <b>AddAssociationReferenceToAssociationGroup</b> WSDL operation.
<b>BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage</b>	The response WSDL message for the <b>AddAssociationReferenceToAssociationGroup</b> WSDL operation.

#### 3.1.4.2.1.1

### **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_InputMessage**

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

The SOAP action value is:

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

### 3.1.4.2.1.2

#### **BusinessDataCatalogSharedService\_AddAssociationReferenceToAssociationGroup\_OutputMessage**

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

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

### 3.1.4.2.2 Elements

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

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

#### 3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup

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

```
<xs:element name="AddAssociationReferenceToAssociationGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationGroupStruct" nillable="true" type="tns5:AssociationGroupStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationGroupStruct:** The AssociationGroup.

**associationReferenceStruct:** The AssociationReference.

#### 3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse

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

```

<xs:element name="AddAssociationReferenceToAssociationGroupResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
        type="tns5:AssociationGroupStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="associationReferenceStruct" nillable="true" type="tns5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**AddAssociationReferenceToAssociationGroupResult:** The AssociationGroup.

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

### 3.1.4.2.3 Complex Types

None.

### 3.1.4.2.4 Simple Types

None.

### 3.1.4.2.5 Attributes

None.

### 3.1.4.2.6 Groups

None.

### 3.1.4.2.7 Attribute Groups

None.

### 3.1.4.3 AddEntityToModel

This operation is used to add a reference to the specified Entity to the specified Model.

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

```

<wsdl:operation name="AddEntityToModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel"
    message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelResponse"
    message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the specified <b>Model</b> .
<b>MetadataObjectnotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Model</b> does not exist.
<b>BdcExceptionState</b> (section 2.2.4.25)	The specified <b>Entity</b> does not exist.

### 3.1.4.3.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_AddEntityToModel_InputMessage</b>	The request WSDL message for the <b>AddEntityToModel</b> WSDL operation.
<b>BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage</b>	The response WSDL message for the <b>AddEntityToModel</b> WSDL operation.

### 3.1.4.3.1.1 BusinessDataCatalogSharedService\_AddEntityToModel\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.3.1.2 BusinessDataCatalogSharedService\_AddEntityToModel\_OutputMessage

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

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

### 3.1.4.3.2 Elements

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

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

#### 3.1.4.3.2.1 AddEntityToModel

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

```
<xs:element name="AddEntityToModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
```

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

**modelStruct:** The Model.

**entityStruct:** The Entity.

### 3.1.4.3.2.2 AddEntityToModelResponse

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

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

### 3.1.4.3.3 Complex Types

None.

### 3.1.4.3.4 Simple Types

None.

### 3.1.4.3.5 Attributes

None.

### 3.1.4.3.6 Groups

None.

### 3.1.4.3.7 Attribute Groups

None.

### 3.1.4.4 BulkSwitchActiveOrValidate

This operation is used to change the active version of the specified set of Entities, or validate the specified **Entities** for the purpose of changing the active versions and identify related errors.

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

```
<wsdl:operation name="BulkSwitchActiveOrValidate"  
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">  
  <wsdl:input  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate"  
    message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"  
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>  
  <wsdl:output  
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/BulkSwitchActiveOrValidateResponse"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExcepti
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperati
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage** request

message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in

**Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The value of the <b>validate</b> element is "false" and the <a href="#">security principal (1)</a> in whose context the protocol client is operating is not



Error complex type	Condition
	authorized to modify the specified <b>Entities</b> , or the currently active versions of the specified <b>Entities</b> .
<b>ArgumentOutOfRangeExce</b> <b>ption</b> (section <a href="#">2.2.4.9</a> )	The <b>entityStructs</b> element in <b>BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage</b> has no elements.
<b>ConcurrentModificationExce</b> <b>ptionState</b> (section <a href="#">2.2.4.27</a> )	At least one of the specified <b>Entities</b> has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the <b>Entity</b> . For example, this error can be triggered when one context reads the given <b>Entity</b> , after which another context updates the same <b>Entity</b> , and then the original context tries to update the same <b>Entity</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The operation cannot be performed because the value of the validate element is <b>false</b> and the protocol server encountered reference errors as specified in <b>ActivationErrorRecordStruct</b> (section <a href="#">3.1.4.4.3.2</a> ) when performing this operation.
<b>MetadataObjectNotFoundExce</b> <b>ptionState</b> (section <a href="#">2.2.4.43</a> )	One or more of the specified <b>Entities</b> does not exist.

### 3.1.4.4.1 Messages

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

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

#### 3.1.4.4.1.1

### **BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.4.1.2

#### BusinessDataCatalogSharedService\_BulkSwitchActiveOrValidate\_OutputMessage

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

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

### 3.1.4.4.2 Elements

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

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

#### 3.1.4.4.2.1 BulkSwitchActiveOrValidate

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

```
<xs:element name="BulkSwitchActiveOrValidate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns5:ArrayOfEntityStruct"/>
      <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

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

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

#### 3.1.4.4.2.2 BulkSwitchActiveOrValidateResponse

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

```

<xs:element name="BulkSwitchActiveOrValidateResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="BulkSwitchActiveOrValidateResult" nillable="true"
type="tns5:ArrayOfActivationErrorRecordStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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

**entityStructs:** This element MUST contain information about Entities that were updated as a result of this operation. The value of this element MUST be ignored if the value of the **validate** element is "true". [<29>](#)

### 3.1.4.4.3 Complex Types

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

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

#### 3.1.4.4.3.1 ArrayOfActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

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

```

<xs:complexType name="ArrayOfActivationErrorRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="tns5:ActivationErrorRecordStruct"/>
  </xs:sequence>
</xs:complexType>

```

**ActivationErrorRecordStruct:** A reference error encountered during the operation.

#### 3.1.4.4.3.2 ActivationErrorRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ActivationErrorRecordStruct** complex type contains information about a single reference error encountered during the operation. A reference error indicates a MetadataObject has a reference to an invalid **MetadataObject**, placing the **MetadataObject** that has the reference in

error. The value of the **errorCode** element specifies which **MetadataObject** is in error, and why that **MetadataObject** is in error.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**errorCode:** The error code. The value MUST be listed in the following table.

Value	Description
-1003	A <b>TypeDescriptor</b> is in error because it references an Identifier that doesn't exist in the specified <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , <b>containingParameterName</b> , <b>containingTypeDescriptorName</b> , <b>containingTypeDescriptorId</b> , <b>tDIDReferenceName</b> , <b>tDIDReferenceTypeName</b> , <b>tDIDEntityReferenceName</b> , and <b>tDIDEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1004	A <b>TypeDescriptor</b> is in error because it references an <b>Association</b> that doesn't exist in the specified <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , <b>containingParameterName</b> , <b>containingTypeDescriptorName</b> , <b>containingTypeDescriptorId</b> , <b>tDAssociationReferenceName</b> , <b>tDAssociationEntityReferenceName</b> , and <b>tDAssociationEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1005	An <b>Entity</b> is in error because the <b>TypeDescriptors</b> that are contained in the Parameters of its Methods are referencing only non-empty strict subset of <b>Identifiers</b> of an active <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , <b>tDIDEntityReferenceName</b> , and <b>tDIDEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-1008	An <b>AssociationReference</b> is in error because it references an <b>Association</b> that doesn't exist in the specified <b>Entity</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingAssociationGroupName</b> , <b>aGAssociationReferenceName</b> , <b>aGAssociationEntityReferenceName</b> , and <b>aGAssociationEntityReferenceNamespace</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.

Value	Description
-1011	An Association is in error because the <b>Entity</b> containing the <b>Association</b> is not contained by the same LobSystem as the destination <b>Entity</b> of the <b>Association</b> . For this error code, <b>ContainingEntityNamespace</b> , <b>ContainingEntityName</b> , <b>ContainingEntityVersion</b> , <b>ContainingMethodName</b> , and <b>AGAssociationReferenceName</b> all MUST NOT be NULL. All other columns MUST be ignored by the protocol client.
-1012	An <b>Association</b> is in error because all of the conditions in the following list are <b>true</b> : <ul style="list-style-type: none"> <li>▪ The destination <b>Entity</b> of the <b>Association</b> contains MethodInstance, and there exists a <b>TypeDescriptor</b> contained by the <b>Parameter</b> that contains the ReturnPropertyDescriptor of this <b>MethodInstance</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references an <b>Identifier</b> of a source <b>Entity</b> of the <b>Association</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references the <b>Association</b>.</li> <li>▪ The <b>ReturnPropertyDescriptor</b> of the <b>Association</b> has the <b>IsCollection</b> flag not set.</li> </ul> <p>Or, all of the conditions in the following list are <b>true</b>:</p> <ul style="list-style-type: none"> <li>▪ The source <b>Entity</b> of the <b>Association</b> contains a <b>MethodInstance</b>, and there exists a <b>TypeDescriptor</b> contained by the <b>Parameter</b> that contains the <b>ReturnPropertyDescriptor</b> of this <b>MethodInstance</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references an <b>Identifier</b> of the destination <b>Entity</b> of the <b>Association</b>.</li> <li>▪ The same <b>TypeDescriptor</b> references the <b>Association</b>.</li> <li>▪ The <b>ReturnPropertyDescriptor</b> of the <b>Association</b> has the <b>IsCollection</b> flag set.</li> </ul> <p>For this error code, <b>ContainingEntityNamespace</b>, <b>ContainingEntityName</b>, <b>ContainingEntityVersion</b>, <b>ContainingMethodName</b>, and <b>AGAssociationReferenceName</b> all MUST NOT be NULL. All other columns MUST be ignored by the protocol client.</p>
-800	An AssociationGroup is in error because all <b>Associations</b> referenced by the AssociationReferences contained by this <b>AssociationGroup</b> with the <b>IsReverse</b> attribute set to <b>false</b> do not have same sources. For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-801	An <b>AssociationGroup</b> is in error because one of the following conditions is <b>true</b> : <ul style="list-style-type: none"> <li>▪ The <b>Entity</b> containing <b>AssociationGroup</b> is not the destination of this <b>AssociationGroup</b>.</li> <li>▪ The <b>AssociationGroup</b> contains <b>AssociationReferences</b> with IsReverse attribute is set to true, but the <b>AssociationGroup</b> has more than one source.</li> </ul> <p>For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-802	An <b>AssociationGroup</b> is in error because there is more than one <b>Association</b> which is an Associator or a Disassociator referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-803	An <b>AssociationGroup</b> is in error because one of the following conditions is <b>true</b> :

Value	Description
	<ul style="list-style-type: none"> <li>There are more than one <b>Association</b> which is an <b>BulkAssociatedIdEnumerator</b> referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b> with <b>IsReverse</b> attribute is set to <b>false</b>.</li> <li>There are more <b>Associations</b> that are <b>BulkAssociatedIdEnumerators</b> referenced from the <b>AssociationReferences</b> of this <b>AssociationGroup</b> with <b>IsReverse</b> attribute is set to <b>true</b>, than the number of sources of this <b>AssociationGroup</b>.</li> </ul> <p>For this error code, <b>containingEntityNamespace</b>, <b>containingEntityName</b>, <b>containingEntityVersion</b>, and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-804	An <b>AssociationGroup</b> is in error because it contains an <b>AssociationReference</b> which has <b>IsReverse</b> attribute set to <b>true</b> , but the <b>Association</b> it references is not an <b>AssociationNavigator</b> , a <b>BulkAssociationNavigator</b> or a <b>BulkAssociatedIdEnumerator</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , and <b>containingAssociationGroupName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.
-805	An <b>Association</b> is in error because it is a <b>BulkAssociationNavigator</b> and it is not referenced from an <b>AssociationReference</b> that is contained in an <b>AssociationGroup</b> which has another <b>AssociationReference</b> that references an <b>Association</b> that is an <b>AssociationNavigator</b> and has the same value for <b>IsReverse</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , and <b>aGAssociationReferenceName</b> all MUST NOT be NULL. If the <b>Association</b> is referenced from an <b>AssociationReference</b> , <b>containingAssociationGroupName</b> also MUST NOT be NULL; otherwise, it MUST be NULL. Values of all other elements MUST be ignored by the protocol client.
-806	An <b>Association</b> is in error because it is referenced by two or more <b>AssociationReferences</b> . For this error code, <b>containingEntityNamespace</b> , <b>containingEntityName</b> , <b>containingEntityVersion</b> , <b>containingMethodName</b> , and <b>aGAssociationReferenceName</b> all MUST NOT be NULL. Values of all other elements MUST be ignored by the protocol client.

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

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

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

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

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

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

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

#### 3.1.4.4.4 Simple Types

None.

### 3.1.4.4.5 Attributes

None.

### 3.1.4.4.6 Groups

None.

### 3.1.4.4.7 Attribute Groups

None.

### 3.1.4.5 CheckPathInMethodInstances

The **CheckPathInMethodInstances** operation retrieves whether the specified path, which conforms to [\[MS-BDCMFFS\]](#) section [2.1.5.5](#), corresponds to a TypeDescriptor in a View of the MethodInstances of the specified type contained by the specified DataClass, along with the MetadataObjectId of one such **MethodInstance**, if one exists.

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

```
<wsdl:operation name="CheckPathInMethodInstances"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances"
    message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
      wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesResponse"
      message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"
      xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
      <wsdl:fault
        wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
        message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
        <wsdl:fault
          wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesArgumentNullExceptionFault"
          name="ArgumentNullExceptionFault"
          message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
          <wsdl:fault
            wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
            message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
            <wsdl:fault
              wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstancesMetadataExceptionStateFault"
              name="MetadataExceptionStateFault"
              message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
              </wsdl:fault>
            </wsdl:fault>
          </wsdl:fault>
        </wsdl:fault>
      </wsdl:output>
    </wsdl:input>
  </wsdl:operation>
```



The protocol client sends a **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentException</b> (section 2.2.4.7)	The specified path did not conform to the specification for TypeDescriptorPathStrings in [MS-BDCMFFS] section 2.1.5.5.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified DataClass does not exist.

### 3.1.4.5.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage</b>	The request WSDL message for the <b>CheckPathInMethodInstances</b> WSDL operation.
<b>BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage</b>	The response WSDL message for the <b>CheckPathInMethodInstances</b> WSDL operation.

#### 3.1.4.5.1.1

### **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.5.1.2

#### **BusinessDataCatalogSharedService\_CheckPathInMethodInstances\_OutputMessage**

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

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

### 3.1.4.5.2 Elements

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

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

#### 3.1.4.5.2.1 CheckPathInMethodInstances

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

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

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

**dottedPath:** The path to the TypeDescriptor from the **TypeDescriptors** contained by the ReturnTypeDescriptor of the **MethodInstance**. The value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section [2.1.5.5](#).

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

**partitionId:** An empty GUID.

#### 3.1.4.5.2.2 CheckPathInMethodInstancesResponse

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

```

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

```

**CheckPathInMethodInstancesResult:** If **methodInstanceId** is 0, the value MUST be **false**. Otherwise, the value MUST be **true**.

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

### 3.1.4.5.3 Complex Types

None.

### 3.1.4.5.4 Simple Types

None.

### 3.1.4.5.5 Attributes

None.

### 3.1.4.5.6 Groups

None.

### 3.1.4.5.7 Attribute Groups

None.

### 3.1.4.6 ClearLocalizedNames

This operation is used to remove all localized names of the specified MetadataObject from the specified Setting.

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

```

<wsdl:operation name="ClearLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames"
    message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/ClearLocalizedNamesResponse"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.2)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the specified <b>MetadataObject</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.6.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage</b>	The request WSDL message for the <b>ClearLocalizedNames</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage</b>	The response WSDL message for the <b>ClearLocalizedNames</b> WSDL operation.

#### 3.1.4.6.1.1

##### **BusinessDataCatalogSharedService\_ClearLocalizedNames\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.6.1.2

##### **BusinessDataCatalogSharedService\_ClearLocalizedNames\_OutputMessage**

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

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

### 3.1.4.6.2 Elements

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

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

#### 3.1.4.6.2.1 ClearLocalizedNames

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

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

```

    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**metadataObjectStruct:** The MetadataObject of which the localized names will be removed. The partition (1) of this **MetadataObject** MUST be the empty GUID.

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

### 3.1.4.6.2.2 ClearLocalizedNamesResponse

The **ClearLocalizedNamesResponse** element specifies the result data for the **ClearLocalizedNames** WSDL operation.

```

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

```

### 3.1.4.6.3 Complex Types

None.

### 3.1.4.6.4 Simple Types

None.

### 3.1.4.6.5 Attributes

None.

### 3.1.4.6.6 Groups

None.

### 3.1.4.6.7 Attribute Groups

None.

### 3.1.4.7 ClearProperties

This operation is used to remove all Properties of the specified MetadataObject from the specified Setting.

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

```

<wsdl:operation name="ClearProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/ClearProperties"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesResponse"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ClearProperties\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.2</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the specified MetadataObject.

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

### 3.1.4.7.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ClearProperties_InputMessage</b>	The request WSDL message for the <b>ClearProperties</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ClearProperties_OutputMessage</b>	The response WSDL message for the <b>ClearProperties</b> WSDL operation.

#### 3.1.4.7.1.1 BusinessDataCatalogSharedService\_ClearProperties\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.7.1.2 BusinessDataCatalogSharedService\_ClearProperties\_OutputMessage

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

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

### 3.1.4.7.2 Elements

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

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

#### 3.1.4.7.2.1 ClearProperties

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



```

<xs:element name="ClearProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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

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

### 3.1.4.7.2.2 ClearPropertiesResponse

The **ClearPropertiesResponse** element specifies the result data for the **ClearProperties** WSDL operation.

```

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

```

### 3.1.4.7.3 Complex Types

None.

### 3.1.4.7.4 Simple Types

None.

### 3.1.4.7.5 Attributes

None.

### 3.1.4.7.6 Groups

None.

### 3.1.4.7.7 Attribute Groups

None.

### 3.1.4.8 CopyAclAcrossChildren

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

If the specified **MetadataObject** is a MetadataCatalog, the protocol server MUST NOT change the ACEs of any LobSystem and their descendent **MetadataObjects** if the [security principal \(2\)](#) in whose context the protocol client is operating is not authorized to edit the **LobSystem**.

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

```
<wsdl:operation name="CopyAclAcrossChildren" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol

server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.2</a> )	The security principal (2) in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.8.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage</b>	The request WSDL message for the <b>CopyAclAcrossChildren</b> WSDL operation.
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage</b>	The response WSDL message for the <b>CopyAclAcrossChildren</b> WSDL operation.

#### 3.1.4.8.1.1

### **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.8.1.2

### **BusinessDataCatalogSharedService\_CopyAclAcrossChildren\_OutputMessage**

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

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

### 3.1.4.8.2 Elements

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

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

### 3.1.4.8.2.1 CopyAclAcrossChildren

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

```
<xs:element name="CopyAclAcrossChildren" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

### 3.1.4.8.2.2 CopyAclAcrossChildrenResponse

The **CopyAclAcrossChildrenResponse** element specifies the result data for the **CopyAclAcrossChildren** WSDL operation.

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

### 3.1.4.8.3 Complex Types

None.

### 3.1.4.8.4 Simple Types

None.

### 3.1.4.8.5 Attributes

None.

### 3.1.4.8.6 Groups

None.

### 3.1.4.8.7 Attribute Groups

None.



```
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

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

### 3.1.4.9.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage</b>	The request WSDL message for the <b>CopyAclAcrossChildrenForSetting</b> WSDL operation.
<b>BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage</b>	The response WSDL message for the <b>CopyAclAcrossChildrenForSetting</b> WSDL operation.

#### 3.1.4.9.1.1

### **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.9.1.2

#### **BusinessDataCatalogSharedService\_CopyAclAcrossChildrenForSetting\_OutputMessage**

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

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

### 3.1.4.9.2 Elements

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

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

#### 3.1.4.9.2.1 CopyAclAcrossChildrenForSetting

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

```
<xs:element name="CopyAclAcrossChildrenForSetting"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

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

#### 3.1.4.9.2.2 CopyAclAcrossChildrenForSettingResponse

The **CopyAclAcrossChildrenForSettingResponse** element specifies the result data for the **CopyAclAcrossChildrenForSetting** WSDL operation.

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

### 3.1.4.9.3 Complex Types

None.

### 3.1.4.9.4 Simple Types

None.

### 3.1.4.9.5 Attributes

None.

### 3.1.4.9.6 Groups

None.

### 3.1.4.9.7 Attribute Groups

None.

### 3.1.4.10 CopyAclToSetting

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

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

```
<wsdl:operation name="CopyAclToSetting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting"
    message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse"
    message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
```



```

message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error Complex Type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified ACEs.
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The MetadataObjectId of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist in the metadata store.

### 3.1.4.10.1 Messages

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

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

### 3.1.4.10.1.1

#### **BusinessDataCatalogSharedService\_CopyAclToSetting\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.10.1.2

#### **BusinessDataCatalogSharedService\_CopyAclToSetting\_OutputMessage**

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

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

### 3.1.4.10.2 Elements

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

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

#### 3.1.4.10.2.1 CopyAclToSetting

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

```
<xs:element name="CopyAclToSetting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject. The partition (1) of this element MUST be an empty GUID.

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

#### 3.1.4.10.2.2 CopyAclToSettingResponse

The **CopyAclToSettingResponse** element specifies the result data for the **CopyAclToSetting** WSDL operation.

```

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

```

### 3.1.4.10.3 Complex Types

None.

### 3.1.4.10.4 Simple Types

None.

### 3.1.4.10.5 Attributes

None.

### 3.1.4.10.6 Groups

None.

### 3.1.4.10.7 Attribute Groups

None.

### 3.1.4.11 Deactivate

This operation is used to set the active version of an Entity as not active.

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

```

<wsdl:operation name="Deactivate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate" message="tns6:BusinessDataCatalogSharedService_Deactivate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateResponse"
    message="tns6:BusinessDataCatalogSharedService_Deactivate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_Deactivate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Deactivate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the specified <b>Entity</b> .
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>Entity</b> has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the <b>Entity</b> . For example, this error can be triggered when a thread reads the given <b>Entity</b> , after which another thread updates the same <b>Entity</b> , and then the original thread tries to update.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions is satisfied: <ul style="list-style-type: none"> <li>▪ This operation cannot be performed because the protocol server encountered reference errors (as specified in section <a href="#">3.1.4.4.3.2</a>) when performing this operation.</li> <li>▪ This operation cannot be performed because the specified <b>Entity</b> is already not active.</li> </ul>

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

### 3.1.4.11.1 Messages

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

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

#### 3.1.4.11.1.1 BusinessDataCatalogSharedService\_Deactivate\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.11.1.2 BusinessDataCatalogSharedService\_Deactivate\_OutputMessage

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

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

### 3.1.4.11.2 Elements

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

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

#### 3.1.4.11.2.1 Deactivate

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

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

```

    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**entityStruct:** The Entity to set as not active.

### 3.1.4.11.2.2 DeactivateResponse

The **DeactivateResponse** element specifies the result data for the **Deactivate** WSDL operation.

```

<xs:element name="DeactivateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**DeactivateResult:** The Entity that was set as not active as a result of this operation.

### 3.1.4.11.3 Complex Types

None.

### 3.1.4.11.4 Simple Types

None.

### 3.1.4.11.5 Attributes

None.

### 3.1.4.11.6 Groups

None.

### 3.1.4.11.7 Attribute Groups

None.

### 3.1.4.12 Delete

This operation is used to delete the specified MetadataObject.

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

```

<wsdl:operation name="Delete" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/Delete" message="tns6:BusinessDataCatalogSharedService_Delete_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse"
message="tns6:BusinessDataCatalogSharedService_Delete_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_Delete\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Delete\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error Complex Type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , or the specified <b>MetadataObject</b> is a Model and the security principal (2) in whose context the protocol client is operating is not authorized to modify one or more of the LobSystems which contain one or more <b>Entity</b> referenced by the specified Model.
<b>ConcurrentModificationExceptionState</b>	The specified <b>MetadataObject</b> has been updated by a

Error Complex Type	Condition
(section <a href="#">2.2.4.27</a> )	context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the <b>MetadataObject</b> . For example, this error can be triggered when one context reads the given <b>MetadataObject</b> , after which another context updates the same <b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions is satisfied: <ul style="list-style-type: none"> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which, if active, MUST be made not active before being deleted. An attempt was made to make the <b>Entity</b> not active, but, at the time of the attempt, the <b>Entity</b> was no longer active.</li> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is a FilterDescriptor of type TimeStampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator.</li> <li>▪ The specified <b>MetadataObject</b> is an LobSystem and it contains at least one <b>Entity</b>.</li> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and there exists at least one <b>MethodInstance</b> whose ReturnPropertyDescriptor is the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> cannot be deleted because it is either an active <b>Entity</b> or the child of an active <b>Entity</b>.</li> <li>▪ The specified <b>MetadataObject</b> cannot be deleted because it is an LobSystemInstance which does not exist.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

Any Properties that are child objects of the specified **MetadataObject** MUST also be deleted. If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the metadata store.

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



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

### 3.1.4.12.1 Messages

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

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

#### 3.1.4.12.1.1 BusinessDataCatalogSharedService\_Delete\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.12.1.2 BusinessDataCatalogSharedService\_Delete\_OutputMessage

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

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

### 3.1.4.12.2 Elements

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

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

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

### 3.1.4.12.2.1 Delete

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

```
<xs:element name="Delete" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject which this operation MUST delete.

### 3.1.4.12.2.2 DeleteResponse

The **DeleteResponse** element specifies the result data for the **Delete** WSDL operation.

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

### 3.1.4.12.3 Complex Types

None.

### 3.1.4.12.4 Simple Types

None.

### 3.1.4.12.5 Attributes

None.

### 3.1.4.12.6 Groups

None.

### 3.1.4.12.7 Attribute Groups

None.

### 3.1.4.13 DeleteAssociationReferenceFromAssociationGroup

This operation is used to remove an AssociationReference from an AssociationGroup by deleting the **AssociationReference**.

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

```
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage** request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	One of the following conditions is satisfied: <ul style="list-style-type: none"> <li>The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the Entity containing the <b>AssociationGroup</b> containing the specified <b>AssociationReference</b>.</li> <li>The identifier of the specified <b>AssociationReference</b> is 0.</li> <li>The specified <b>AssociationReference</b> does not exist.</li> </ul>
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>associationGroupId</b> of the specified <b>AssociationReference</b> is 0.
<b>ConcurrentModificationExceptionState</b> (section 2.2.4.27)	The specified <b>AssociationReference</b> has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the <b>AssociationReference</b> . For example, this error can be triggered when one context reads the given <b>AssociationReference</b> , after which another context updates the same <b>AssociationReference</b> , and then the original context tries to update.<30>
<b>InvalidOperationException</b> (section 2.2.4.38)	The operation cannot be performed because the <b>Entity</b> which contains the <b>AssociationGroup</b> which contains the specified <b>AssociationReference</b> is active.<31>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The <b>AssociationGroup</b> that is specified by the <b>associationGroupId</b> of the specified <b>AssociationReference</b> does not exist.

### 3.1.4.13.1 Messages

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

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

Message	Description
<b>FromAssociationGroup_OutputMessage</b>	the <b>DeleteAssociationReferenceFromAssociationGroup</b> WSDL operation.

### 3.1.4.13.1.1

#### **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.13.1.2

#### **BusinessDataCatalogSharedService\_DeleteAssociationReferenceFromAssociationGroup\_OutputMessage**

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

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

### 3.1.4.13.2 Elements

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

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

### 3.1.4.13.2.1 DeleteAssociationReferenceFromAssociationGroup

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

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

```

    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns5:AssociationReferenceStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**associationReferenceStruct:** The AssociationReference.

**partitionId:** An empty GUID.

### 3.1.4.13.2 DeleteAssociationReferenceFromAssociationGroupResponse

The **DeleteAssociationReferenceFromAssociationGroupResponse** element specifies the result data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

```

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

```

### 3.1.4.13.3 Complex Types

None.

### 3.1.4.13.4 Simple Types

None.

### 3.1.4.13.5 Attributes

None.

### 3.1.4.13.6 Groups

None.

### 3.1.4.13.7 Attribute Groups

None.

### 3.1.4.14 DeleteDefaultValueForTypeDescriptor

This operation is used to delete the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.

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

```

<wsdl:operation name="DeleteDefaultValueForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNu
llExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOu
tOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOpe
rationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataEx
ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the Method containing the Parameter containing the specified <b>TypeDescriptor</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> for the <b>TypeDescriptor</b> or the <b>MethodInstance</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>TypeDescriptor</b> or the specified <b>MethodInstance</b> does not exist.

### 3.1.4.14.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>DeleteDefaultValueForTypeDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>DeleteDefaultValueForTypeDescriptor</b> WSDL operation.

#### 3.1.4.14.1.1

### **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_Input Message**

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

The SOAP action value is:

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

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

#### 3.1.4.14.1.2

### **BusinessDataCatalogSharedService\_DeleteDefaultValueForTypeDescriptor\_Output Message**

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

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

### 3.1.4.14.2 Elements

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



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

### 3.1.4.14.2.1 DeleteDefaultValueForTypeDescriptor

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

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

**typeDescriptorId:** The **MetadataObjectId** for the **TypeDescriptor**.

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

**partitionId:** An empty GUID.

### 3.1.4.14.2.2 DeleteDefaultValueForTypeDescriptorResponse

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

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

### 3.1.4.14.3 Complex Types

None.

### 3.1.4.14.4 Simple Types

None.

### 3.1.4.14.5 Attributes

None.

### 3.1.4.14.6 Groups

None.

### 3.1.4.14.7 Attribute Groups

None.

### 3.1.4.15 DeleteNoCascade

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

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

```
<wsdl:operation name="DeleteNoCascade" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeResponse"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
```

```
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.2)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<b>ConcurrentModificationExceptionState</b> (section 2.2.4.27)	The specified <b>MetadataObject</b> has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the <b>MetadataObject</b> . For example, this error can be triggered when one context reads the given <b>MetadataObject</b> , after which another context updates the same <b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<b>InvalidOperationException</b> (section 2.2.4.38)	One of the following conditions is satisfied: <ul style="list-style-type: none"> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which, if active, MUST be made not active before being deleted. An attempt was made to make the <b>Entity</b> not active, but, at the time of the attempt, the <b>Entity</b> was no longer active.</li> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b> and is currently used in a <b>MethodInstance</b> of type <b>ChangedIdEnumerator</b> or <b>DeletedIdEnumerator</b>.</li> <li>▪ The specified <b>MetadataObject</b> is an <b>LobSystem</b> and it contains at least one <b>Entity</b>.</li> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and there exists at least one <b>MethodInstance</b> whose <b>ReturnTypeDescriptor</b> is the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> cannot be deleted because it is either an active <b>Entity</b> or the child of an</li> </ul>

Error complex type	Condition
	active <b>Entity</b> . <ul style="list-style-type: none"> <li>The specified <b>MetadataObject</b> cannot be deleted because it is an <b>LobSystemInstance</b> which does not exist.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

Any Properties that are child objects of the specified **MetadataObject** MUST also be deleted. If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified **MetadataObject** from the metadata store:

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

### 3.1.4.15.1 Messages

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

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

#### 3.1.4.15.1.1 BusinessDataCatalogSharedService\_DeleteNoCascade\_InputMessage

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

The SOAP action value is:

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

### 3.1.4.15.1.2

#### **BusinessDataCatalogSharedService\_DeleteNoCascade\_OutputMessage**

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

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

### 3.1.4.15.2 Elements

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

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

#### 3.1.4.15.2.1 DeleteNoCascade

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

```
<xs:element name="DeleteNoCascade" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject which this operation MUST delete.

#### 3.1.4.15.2.2 DeleteNoCascadeResponse

The **DeleteNoCascadeResponse** element specifies the result data for the **DeleteNoCascade** WSDL operation.

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

### 3.1.4.15.3 Complex Types

None.

### 3.1.4.15.4 Simple Types

None.

### 3.1.4.15.5 Attributes

None.

### 3.1.4.15.6 Groups

None.

### 3.1.4.15.7 Attribute Groups

None.

### 3.1.4.16 DeleteProxyAssemblyForLobSystem

This operation is used to delete a Business Logic Module [<32>](#) associated with the specified LobSystem.

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

```
<wsdl:operation name="DeleteProxyAssemblyForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystem"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfR
angeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met. If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the specified <b>LobSystem</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>LobSystem</b> does not exist.

### 3.1.4.16.1 Messages

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

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

#### 3.1.4.16.1.1

### **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.16.1.2

#### **BusinessDataCatalogSharedService\_DeleteProxyAssemblyForLobSystem\_Output Message**

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

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

### 3.1.4.16.2 Elements

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

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

#### 3.1.4.16.2.1 DeleteProxyAssemblyForLobSystem

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

```
<xs:element name="DeleteProxyAssemblyForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem for which the Business Logic Module [<33>](#) will be deleted.

#### 3.1.4.16.2.2 DeleteProxyAssemblyForLobSystemResponse

The **DeleteProxyAssemblyForLobSystemResponse** element specifies the result data for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

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



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

### 3.1.4.16.3 Complex Types

None.

### 3.1.4.16.4 Simple Types

None.

### 3.1.4.16.5 Attributes

None.

### 3.1.4.16.6 Groups

None.

### 3.1.4.16.7 Attribute Groups

None.

### 3.1.4.17 EntityCreate

This operation is used to create an Entity in the specified LobSystem. The operation MUST copy ACEs from the specified **LobSystem** to the created **Entity**. If a Model is specified, the operation MUST associate the created **Entity** with the specified **Model**. Otherwise the created **Entity** is not referenced by any **Model**.

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

```
<wsdl:operation name="EntityCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreate"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateResponse"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/EntityCreateArgumentOutOfRangeExceptionHandler"
name="ArgumentOutOfRangeExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateBdcExceptionHandler" name="BdcExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionHandler" name="InvalidOperationExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionHandler" name="MetadataExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionHandler"
name="PackageFormatExceptionHandler"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionHandler_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_EntityCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the MetadataCatalog in which the <b>Entity</b> is to be created.
<b>ArgumentException</b> (section 2.2.4.7)	At least one of the following is <b>true</b> : <ul style="list-style-type: none"> <li>▪ The namespace specified for the new <b>Entity</b> is NULL or empty.</li> <li>▪ The length of the namespace specified for the new <b>Entity</b> is greater than 255 characters.</li> <li>▪ The name specified for the new <b>Entity</b> is NULL or empty.</li> <li>▪ The length of the name specified for the new <b>Entity</b> is greater than 255 characters.</li> </ul>
<b>ArgumentNullException</b> (section 2.2.4.8)	The version specified for a new <b>Entity</b> is NULL.

Error complex type	Condition
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	The <b>Entity</b> with the same name, namespace, version, and partition already exists in the specified <b>LobSystem</b> .
<b>ExceededMetadataobjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>LobSystem</b> already contains the implementation-specific maximum number of <b>Entities</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Model does not exist.

### 3.1.4.17.1 Messages

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

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

#### 3.1.4.17.1.1 BusinessDataCatalogSharedService\_EntityCreate\_InputMessage

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

The SOAP action value is:

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

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

#### 3.1.4.17.1.2 BusinessDataCatalogSharedService\_EntityCreate\_OutputMessage

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

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

### 3.1.4.17.2 Elements

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

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

### 3.1.4.17.2.1 EntityCreate

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

```
<xs:element name="EntityCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns5:EntityStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**rawValues:** The Entity to be created.

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

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

### 3.1.4.17.2.2 EntityCreateResponse

The **EntityCreateResponse** element specifies the result data for the **EntityCreate** WSDL operation.

```
<xs:element name="EntityCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="EntityCreateResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**EntityCreateResult:** The created Entity.

### 3.1.4.17.3 Complex Types

None.

### 3.1.4.17.4 Simple Types

None.

### 3.1.4.17.5 Attributes

None.

### 3.1.4.17.6 Groups

None.

### 3.1.4.17.7 Attribute Groups

None.

### 3.1.4.18 ExportPackage

This operation is used to retrieve an XML representation of the following objects from the metadata store:

- MetadataObjects contained by the specified MetadataModel along with their Properties, localized names and ACEs, if the "Model" value is specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.3.34.
- Localized names, Properties, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

If the specified **MetadataModel** contains LobSystems that the [security principal \(2\)](#) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

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

```
<wsdl:operation name="ExportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage"
    message="tns6:BusinessDataCatalogSharedService_ExportPackage_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse"
    message="tns6:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ExportPackage\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The security principal (2) in whose context the protocol client is operating is not authorized to export<34> the specified Model.
<b>ArgumentException</b> (section 2.2.4.7)	The "InlineProxies" value requires the "Model" value to be also specified for the <b>packageContents</b> element.
<b>ArgumentNullException</b> (section 2.2.4.8)	The specified <b>Model</b> is NULL.
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The MetadataObjectId of the specified <b>Model</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Model</b> or other <b>MetadataObjects</b> to be exported do not exist.

### 3.1.4.18.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_ExportPackage_InputMessage</b>	The request WSDL message

Message	Description
	for the <b>ExportPackage</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ExportPackage_OutputMessage</b>	The response WSDL message for the <b>ExportPackage</b> WSDL operation.

### 3.1.4.18.1.1 BusinessDataCatalogSharedService\_ExportPackage\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.18.1.2 BusinessDataCatalogSharedService\_ExportPackage\_OutputMessage

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

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

### 3.1.4.18.2 Elements

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

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

#### 3.1.4.18.2.1 ExportPackage

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

```
<xs:element name="ExportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelStruct:** The Model.

**packageContents:** Specifies what kind of data to retrieve for the specified **Model**. If the "Properties" value is specified the protocol server MUST retrieve the Properties for the corresponding MetadataObjects from the specified Setting and if "Model" value is also specified then the protocol server MUST also retrieve **Properties** from the default **Setting** that do not have the same name as the **Properties** in the specified **Setting**. If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified MetadataModel. If the "LocalizedNames" value is specified the protocol server MUST retrieve the localized names for the corresponding **MetadataObjects** from the specified **Setting** and if "Model" value is also specified then the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same LCID as the localized names in the specified **Setting**. If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**. If the "Permissions" value is specified the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject** and if "Model" value is also specified then the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**. If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**settingId:** The identifier of the **Setting** to use for retrieving **Properties**, localized names and ACEs to export. If **Properties**, localized names, or ACEs are not exported, the protocol server MUST ignore the value of this element.

### 3.1.4.18.2.2 ExportPackageResponse

The **ExportPackageResponse** element specifies the result data for the **ExportPackage** WSDL operation.

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

**ExportPackageResult:** The XML representation conforming to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) for the MetadataModel, containing the specified data.

### 3.1.4.18.3 Complex Types

None.

### 3.1.4.18.4 Simple Types

None.

### 3.1.4.18.5 Attributes

None.

### 3.1.4.18.6 Groups

None.



### 3.1.4.18.7 Attribute Groups

None.

### 3.1.4.19 GenerateProxyAssemblyForLobSystem

This operation is used to force the protocol server to create an implementation-specific Business Logic Module<35> for the specified LobSystem to connect to the line-of-business (LOB) system described by the specified **LobSystem**. If a Business Logic Module is already available for the specified **LobSystem** this operation MUST NOT create another Business Logic Module and MUST complete successfully.

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

```
<wsdl:operation name="GenerateProxyAssemblyForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutO
fRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcException
StateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOpera
tionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

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

### 3.1.4.19.1 Messages

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

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

#### 3.1.4.19.1.1

### **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_InputMessage**

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

The SOAP action value is:

```

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

```

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

### 3.1.4.19.1.2

#### **BusinessDataCatalogSharedService\_GenerateProxyAssemblyForLobSystem\_OutputMessage**

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

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

### 3.1.4.19.2 Elements

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

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

#### 3.1.4.19.2.1 **GenerateProxyAssemblyForLobSystem**

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

```
<xs:element name="GenerateProxyAssemblyForLobSystem"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem.

#### 3.1.4.19.2.2 **GenerateProxyAssemblyForLobSystemResponse**

The **GenerateProxyAssemblyForLobSystemResponse** element specifies the result data for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

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

### 3.1.4.19.3 Complex Types

None.

### 3.1.4.19.4 Simple Types

None.

### 3.1.4.19.5 Attributes

None.

### 3.1.4.19.6 Groups

None.

### 3.1.4.19.7 Attribute Groups

None.

### 3.1.4.20 GetAccessControlEntries

This operation is used to retrieve the ACEs for the specified **MetadataObject** from the specified **Setting**. If there are no ACEs for the specified **MetadataObject** from the specified **Setting** and the value of the **fallback** element is "true", the protocol server **MUST** retrieve ACEs for the specified **MetadataObject** from the default **Setting**.

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

```
<wsdl:operation name="GetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAccessControlEntries"
    message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAccessControlEntriesResponse"
    message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault
    _FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAccessControlEntriesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionF
    ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExce
    ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperat
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.20.1 Messages

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

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

### 3.1.4.20.1.1

#### BusinessDataCatalogSharedService\_GetAccessControlEntries\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.20.1.2

#### BusinessDataCatalogSharedService\_GetAccessControlEntries\_OutputMessage

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

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

### 3.1.4.20.2 Elements

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

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

#### 3.1.4.20.2.1 GetAccessControlEntries

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

```
<xs:element name="GetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

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

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

### 3.1.4.20.2.2 GetAccessControlEntriesResponse

The **GetAccessControlEntriesResponse** element specifies the result data for the **GetAccessControlEntries** WSDL operation.

```
<xs:element name="GetAccessControlEntriesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAccessControlEntriesResult" nillable="true"
        type="tns5:ArrayOfAccessControlEntryStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAccessControlEntriesResult:** The list of ACEs.

### 3.1.4.20.3 Complex Types

None.

### 3.1.4.20.4 Simple Types

None.

### 3.1.4.20.5 Attributes

None.

### 3.1.4.20.6 Groups

None.

### 3.1.4.20.7 Attribute Groups

None.

### 3.1.4.21 GetActionById

This operation is used to retrieve the specified Action.

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

```
<wsdl:operation name="GetActionById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById"
    message="tns6:BusinessDataCatalogSharedService_GetActionById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetActionById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>Action</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.21.1 Messages

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



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

### 3.1.4.21.1.1 BusinessDataCatalogSharedService\_GetActionById\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.21.1.2 BusinessDataCatalogSharedService\_GetActionById\_OutputMessage

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

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

### 3.1.4.21.2 Elements

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

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

#### 3.1.4.21.2.1 GetActionById

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

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

**actionId:** The MetadataObjectId of the Action.

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

**partitionId:** An empty GUID.

### 3.1.4.21.2.2 GetActionByIdResponse

The **GetActionByIdResponse** element specifies the result data for the **GetActionById** WSDL operation.

```
<xs:element name="GetActionByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="tns5:ActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetActionByIdResult:** The Action.

### 3.1.4.21.3 Complex Types

None.

### 3.1.4.21.4 Simple Types

None.

### 3.1.4.21.5 Attributes

None.

### 3.1.4.21.6 Groups

None.

### 3.1.4.21.7 Attribute Groups

None.

### 3.1.4.22 GetActionParameterById

This operation is used to retrieve the specified ActionParameter.

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

```
<wsdl:operation name="GetActionParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterById"
```

```

message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified ActionParameter does not exist and the value of the <b>performErrorCheck</b> element is

Error complex type	Condition
	true.

### 3.1.4.22.1 Messages

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

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

#### 3.1.4.22.1.1

### **BusinessDataCatalogSharedService\_GetActionParameterById\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.22.1.2

### **BusinessDataCatalogSharedService\_GetActionParameterById\_OutputMessage**

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

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

### 3.1.4.22.2 Elements

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

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

### 3.1.4.22.2.1 GetActionParameterById

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

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

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

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

**partitionId:** An empty GUID.

### 3.1.4.22.2.2 GetActionParameterByIdResponse

The **GetActionParameterByIdResponse** element specifies the result data for the **GetActionParameterById** WSDL operation.

```
<xs:element name="GetActionParameterByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="tns5:ActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetActionParameterByIdResult:** The ActionParameter.

### 3.1.4.22.3 Complex Types

None.

### 3.1.4.22.4 Simple Types

None.

### 3.1.4.22.5 Attributes

None.

### 3.1.4.22.6 Groups

None.

### 3.1.4.22.7 Attribute Groups

None.

### 3.1.4.23 GetActionParametersForAction

This operation is used to retrieve the ActionParameters of the specified Action.

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

```
<wsdl:operation name="GetActionParametersForAction"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForAction"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRang
eExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataException
StateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

</wsdl:operation>

The protocol client sends a

**BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage** request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.<36>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Action</b> does not exist.<37>

### 3.1.4.23.1 Messages

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

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

#### 3.1.4.23.1.1

### **BusinessDataCatalogSharedService\_GetActionParametersForAction\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.23.1.2

## BusinessDataCatalogSharedService\_GetActionParametersForAction\_OutputMessage

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

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

### 3.1.4.23.2 Elements

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

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

#### 3.1.4.23.2.1 GetActionParametersForAction

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

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

**actionId:** The MetadataObjectId of the Action.

**partitionId:** An empty GUID.

#### 3.1.4.23.2.2 GetActionParametersForActionResponse

The **GetActionParametersForActionResponse** element specifies the result data for the **GetActionParametersForAction** WSDL operation.

```
<xs:element name="GetActionParametersForActionResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetActionParametersForActionResult" nillable="true"
        type="tns5:ArrayOfActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



**GetActionParametersForActionResult:** The list of ActionParameters that are contained by the specified Action.

### 3.1.4.23.3 Complex Types

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

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

#### 3.1.4.23.3.1 ArrayOfActionParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of ActionParameters.

```
<xs:complexType name="ArrayOfActionParameterStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="tns5:ActionParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

**ActionParameterStruct:** An ActionParameter of an Action.

#### 3.1.4.23.4 Simple Types

None.

#### 3.1.4.23.5 Attributes

None.

#### 3.1.4.23.6 Groups

None.

#### 3.1.4.23.7 Attribute Groups

None.

### 3.1.4.24 GetActionsForEntity

This operation is used to retrieve the Actions of the specified Entity.

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

```
<wsdl:operation name="GetActionsForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
```

```

message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Entity</b> does not exist. <38>

### 3.1.4.24.1 Messages

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

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

#### 3.1.4.24.1.1

##### **BusinessDataCatalogSharedService\_GetActionsForEntity\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.24.1.2

##### **BusinessDataCatalogSharedService\_GetActionsForEntity\_OutputMessage**

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

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

### 3.1.4.24.2 Elements

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

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

#### 3.1.4.24.2.1 GetActionsForEntity

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

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

```

    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**entityId:** The MetadataObjectId of the Entity.

**partitionId:** An empty GUID.

### 3.1.4.24.2 GetActionsForEntityResponse

The **GetActionsForEntityResponse** element specifies the result data for the **GetActionsForEntity** WSDL operation.

```

<xs:element name="GetActionsForEntityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionsForEntityResult" nillable="true" type="tns5:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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

### 3.1.4.24.3 Complex Types

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

Complex type	Description
<b>ArrayOfActionStruct</b>	Contains a list of Actions.

#### 3.1.4.24.3.1 ArrayOfActionStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of Actions.

```

<xs:complexType name="ArrayOfActionStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="tns5:ActionStruct"/>
  </xs:sequence>
</xs:complexType>

```

**ActionStruct:** An **Action** of an Entity.

### 3.1.4.24.4 Simple Types

None.

### 3.1.4.24.5 Attributes

None.

### 3.1.4.24.6 Groups

None.

### 3.1.4.24.7 Attribute Groups

None.

### 3.1.4.25 GetAllLocalizedNames

This operation is used to retrieve all localized names of the specified MetadataObject.

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

```
<wsdl:operation name="GetAllLocalizedNames" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExcepi
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist. <39>

### 3.1.4.25.1 Messages

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

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

#### 3.1.4.25.1.1

### **BusinessDataCatalogSharedService\_GetAllLocalizedNames\_InputMessage**

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

The SOAP action value is:

```

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

```

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

### 3.1.4.25.1.2

#### BusinessDataCatalogSharedService\_GetAllLocalizedNames\_OutputMessage

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

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

### 3.1.4.25.2 Elements

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

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

#### 3.1.4.25.2.1 GetAllLocalizedNames

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

```
<xs:element name="GetAllLocalizedNames" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectId:** The MetadataObjectId of the MetadataObject.

**partitionId:** An empty GUID.

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

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

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

### 3.1.4.25.2.2 GetAllLocalizedNamesResponse

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

```
<xs:element name="GetAllLocalizedNamesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="tns5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllLocalizedNamesResult:** The list of localized names of the specified MetadataObject.

### 3.1.4.25.3 Complex Types

None.

### 3.1.4.25.4 Simple Types

None.

### 3.1.4.25.5 Attributes

None.

### 3.1.4.25.6 Groups

None.

### 3.1.4.25.7 Attribute Groups

None.

### 3.1.4.26 GetAllLocalizedNamesForMetadataObjectStruct

This operation is used to retrieve all the localized names of the specified MetadataObject for the specified Setting.

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

```
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_In
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ou
tputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bd
cExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_In
validOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Me
tadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObject\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObject\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section	The specified <b>MetadataObject</b> does not

Error complex type	Condition
<a href="#">2.2.4.43</a> )	exist.<40>

### 3.1.4.26.1 Messages

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

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

#### 3.1.4.26.1.1

#### **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.26.1.2

#### **BusinessDataCatalogSharedService\_GetAllLocalizedNamesForMetadataObjectStruct\_OutputMessage**

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

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

### 3.1.4.26.2 Elements

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

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

### 3.1.4.26.2.1 GetAllLocalizedNamesForMetadataObjectStruct

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

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject for which the operation will return the localized names.

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

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

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

### 3.1.4.26.2.2 GetAllLocalizedNamesForMetadataObjectStructResponse

The **GetAllLocalizedNamesForMetadataObjectStructResponse** element specifies the result data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="tns5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**GetAllLocalizedNamesForMetadataObjectStructResult:** The list of localized names of the specified MetadataObject.

### 3.1.4.26.3 Complex Types

None.

### 3.1.4.26.4 Simple Types

None.

### 3.1.4.26.5 Attributes

None.

### 3.1.4.26.6 Groups

None.

### 3.1.4.26.7 Attribute Groups

None.

### 3.1.4.27 GetAllPartitionIds

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

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

```
<wsdl:operation name="GetAllPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds"
    message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse"
    message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"/>
```

```

message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

### 3.1.4.27.1 Messages

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

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

#### 3.1.4.27.1.1

##### **BusinessDataCatalogSharedService\_GetAllPartitionIds\_InputMessage**

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

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds

```

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

#### 3.1.4.27.1.2

##### **BusinessDataCatalogSharedService\_GetAllPartitionIds\_OutputMessage**

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

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

### 3.1.4.27.2 Elements

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

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

### 3.1.4.27.2.1 GetAllPartitionIds

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

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

### 3.1.4.27.2.2 GetAllPartitionIdsResponse

The **GetAllPartitionIdsResponse** element specifies the result data for the **GetAllPartitionIds** WSDL operation.

```
<xs:element name="GetAllPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q9:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllPartitionIdsResult:** Deprecated.

### 3.1.4.27.3 Complex Types

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

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

#### 3.1.4.27.3.1 ArrayOfguid

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

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

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

**guid:** The identifier of a partition (1).

#### 3.1.4.27.4 Simple Types

None.

### 3.1.4.27.5 Attributes

None.

### 3.1.4.27.6 Groups

None.

### 3.1.4.27.7 Attribute Groups

None.

### 3.1.4.28 GetAllProperties

This operation is used to retrieve all the Properties of the specified MetadataObject and the specified Setting.

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

```
<wsdl:operation name="GetAllProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , and the specified <b>MetadataObject</b> is an LobSystem or LobSystemInstance.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.28.1 Messages

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

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

#### 3.1.4.28.1.1 BusinessDataCatalogSharedService\_GetAllProperties\_InputMessage

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

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties

```



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

### 3.1.4.28.1.2

#### **BusinessDataCatalogSharedService\_GetAllProperties\_OutputMessage**

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

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

### 3.1.4.28.2 Elements

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

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

#### 3.1.4.28.2.1 GetAllProperties

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

```
<xs:element name="GetAllProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectId:** The MetadataObjectId for the MetadataObject.

**partitionId:** An empty GUID.

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

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

#### 3.1.4.28.2.2 GetAllPropertiesResponse

The **GetAllPropertiesResponse** element specifies the result data for the **GetAllProperties** WSDL operation.

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

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="tns5:ArrayOfPropertyStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetAllPropertiesResult:** The list of **Properties**.

### 3.1.4.28.3 Complex Types

None.

### 3.1.4.28.4 Simple Types

None.

### 3.1.4.28.5 Attributes

None.

### 3.1.4.28.6 Groups

None.

### 3.1.4.28.7 Attribute Groups

None.

### 3.1.4.29 GetAllPropertiesForMetadataObjectStruct

This operation is used to retrieve all the Properties of the specified MetadataObject from the specified Setting.

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

```

<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Output
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExc
eptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invali
dOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metada
taExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> , and the specified <b>MetadataObject</b> is an <b>LobSystem</b> or <b>LobSystemInstance</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.29.1 Messages

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

Message	Description
<b>BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage</b>	The request WSDL message for the <b>GetAllPropertiesForMetadataObjectStruct</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage</b>	The response WSDL message for the <b>GetAllPropertiesForMetadataObjectStruct</b> WSDL operation.

#### 3.1.4.29.1.1

### **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_InputMessage**

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

The SOAP action value is:

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

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

#### 3.1.4.29.1.2

### **BusinessDataCatalogSharedService\_GetAllPropertiesForMetadataObjectStruct\_OutputMessage**

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

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

### 3.1.4.29.2 Elements

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

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

### 3.1.4.29.2.1 GetAllPropertiesForMetadataObjectStruct

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

```
<xs:element name="GetAllPropertiesForMetadataObjectStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject. The partition (1) of this **MetadataObject** MUST be an empty GUID.

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

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

### 3.1.4.29.2.2 GetAllPropertiesForMetadataObjectStructResponse

The **GetAllPropertiesForMetadataObjectStructResponse** element specifies the result data for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

```
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
        type="tns5:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllPropertiesForMetadataObjectStructResult:** The list of Properties.

### 3.1.4.29.3 Complex Types

None.

### 3.1.4.29.4 Simple Types

None.

### 3.1.4.29.5 Attributes

None.

### 3.1.4.29.6 Groups

None.

### 3.1.4.29.7 Attribute Groups

None.

### 3.1.4.30 GetAssociationById

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

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

```
<wsdl:operation name="GetAssociationById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a

**BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage** request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

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

### 3.1.4.30.1 Messages

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

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

#### 3.1.4.30.1.1

### **BusinessDataCatalogSharedService\_GetAssociationById\_InputMessage**

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

The SOAP action value is:

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

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

### 3.1.4.30.1.2

#### BusinessDataCatalogSharedService\_GetAssociationById\_OutputMessage

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

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

### 3.1.4.30.2 Elements

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

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

#### 3.1.4.30.2.1 GetAssociationById

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

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

**associationId:** The MetadataObjectId of the Association.

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

**partitionId:** An empty GUID.

#### 3.1.4.30.2.2 GetAssociationByIdResponse

The **GetAssociationByIdResponse** element specifies the result data for the **GetAssociationById** WSDL operation.

```
<xs:element name="GetAssociationByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="tns5:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
```



</xs:element>

**GetAssociationByIdResult:** The Association.

### 3.1.4.30.3 Complex Types

None.

### 3.1.4.30.4 Simple Types

None.

### 3.1.4.30.5 Attributes

None.

### 3.1.4.30.6 Groups

None.

### 3.1.4.30.7 Attribute Groups

None.

### 3.1.4.31 GetAssociationGroupById

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

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

```
<wsdl:operation name="GetAssociationGroupById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAssociationGroupById"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAssociationGroupByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault
    _FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAssociationGroupByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionF
    ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
```

```

message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An AssociationGroup with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.31.1 Messages

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

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

### 3.1.4.31.1.1

#### BusinessDataCatalogSharedService\_GetAssociationGroupById\_InputMessage

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

The SOAP action value is:

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

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

### 3.1.4.31.1.2

#### BusinessDataCatalogSharedService\_GetAssociationGroupById\_OutputMessage

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

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

### 3.1.4.31.2 Elements

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

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

#### 3.1.4.31.2.1 GetAssociationGroupById

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

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

**associationGroupId:** The MetadataObjectId for the AssociationGroup.

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

**partitionId:** An empty GUID.

### 3.1.4.31.2.2 GetAssociationGroupByIdResponse

The **GetAssociationGroupByIdResponse** element specifies the result data for the **GetAssociationGroupById** WSDL operation.

```
<xs:element name="GetAssociationGroupByIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationGroupByIdResult" nillable="true" type="tns5:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationGroupByIdResult:** The AssociationGroup.

### 3.1.4.31.3 Complex Types

None.

### 3.1.4.31.4 Simple Types

None.

### 3.1.4.31.5 Attributes

None.

### 3.1.4.31.6 Groups

None.

### 3.1.4.31.7 Attribute Groups

None.

### 3.1.4.32 GetAssociationGroupsForEntity

This operation is used to retrieve the AssociationGroups of the Entity with the specified MetadataObjectId.

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

```
<wsdl:operation name="GetAssociationGroupsForEntity"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity"
    message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage** response message, unless any one of the conditions in the following table is met.

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

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

### 3.1.4.32.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage</b>	The request WSDL message for the <b>GetAssociationGroupsForEntity</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage</b>	The response WSDL message for the <b>GetAssociationGroupsForEntity</b> WSDL operation.

#### 3.1.4.32.1.1

### **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_InputMessage**

The request WSDL message for the **GetAssociationGroupsForEntity** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity`

The SOAP body contains the **GetAssociationGroupsForEntity** element.

#### 3.1.4.32.1.2

### **BusinessDataCatalogSharedService\_GetAssociationGroupsForEntity\_OutputMessage**

The response WSDL message for the **GetAssociationGroupsForEntity** WSDL operation.

The SOAP body contains the **GetAssociationGroupsForEntityResponse** element.

### 3.1.4.32.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetAssociationGroupsForEntity</b>	The input data for the <b>GetAssociationGroupsForEntity</b> WSDL operation.
<b>GetAssociationGroupsForEntityResponse</b>	The result data for the <b>GetAssociationGroupsForEntity</b> WSDL operation.

### 3.1.4.32.2.1 GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** element specifies the input data for the **GetAssociationGroupsForEntity** WSDL operation.

```
<xs:element name="GetAssociationGroupsForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId for the Entity.

**partitionId:** The empty GUID.

### 3.1.4.32.2.2 GetAssociationGroupsForEntityResponse

The **GetAssociationGroupsForEntityResponse** element specifies the result data for the **GetAssociationGroupsForEntity** WSDL operation.

```
<xs:element name="GetAssociationGroupsForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="tns5:ArrayOfAssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationGroupsForEntityResult:** The list of AssociationGroups.

### 3.1.4.32.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfAssociationGroupStruct</b>	Contains a list of AssociationGroups.

#### 3.1.4.32.3.1 ArrayOfAssociationGroupStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of AssociationGroups.

```
<xs:complexType name="ArrayOfAssociationGroupStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
```

```

    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="tns5:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>

```

### **AssociationGroupStruct: An AssociationGroup.**

#### **3.1.4.32.4 Simple Types**

None.

#### **3.1.4.32.5 Attributes**

None.

#### **3.1.4.32.6 Groups**

None.

#### **3.1.4.32.7 Attribute Groups**

None.

### **3.1.4.33 GetAssociationMembersInRole**

This operation is used to retrieve the source or destination Entities of the specified Association.

The following is the WSDL port type specification of the **GetAssociationMembersInRole** WSDL operation.

```

<wsdl:operation name="GetAssociationMembersInRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

```



```

message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRange
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is set to zero, or the value of the <b>role</b> parameter is not zero or 1.
<b>MetadataObjectNotFoundExcepitonState</b> (section 2.2.4.43)	The specified <b>Association</b> does not exist, or does not refer to any <b>Entities</b> .

### 3.1.4.33.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage</b>	The request WSDL message for the <b>GetAssociationMembersInRole</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage</b>	The response WSDL message for the <b>GetAssociationMembersInRole</b> WSDL operation.

### 3.1.4.33.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_InputMessage**

The request WSDL message for the **GetAssociationMembersInRole** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole
```

The SOAP body contains the **GetAssociationMembersInRole** element.

### 3.1.4.33.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationMembersInRole\_OutputMessage**

The response WSDL message for the **GetAssociationMembersInRole** WSDL operation.

The SOAP body contains the **GetAssociationMembersInRoleResponse** element.

### 3.1.4.33.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetAssociationMembersInRole</b>	The input data for the <b>GetAssociationMembersInRole</b> WSDL operation.
<b>GetAssociationMembersInRoleResponse</b>	The result data for the <b>GetAssociationMembersInRole</b> WSDL operation.

#### 3.1.4.33.2.1 GetAssociationMembersInRole

The **GetAssociationMembersInRole** element specifies the input data for the **GetAssociationMembersInRole** WSDL operation.

```
<xs:element name="GetAssociationMembersInRole" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationId:** The MetadataObjectId for the Association.

**role:** An **unsignedByte** value that specifies whether to return source or destination Entities from the Association. The following table describes possible values.

Value	Description
0	Only source <b>Entities</b> are returned.
1	Only destination <b>Entities</b> are returned.

**partitionId:** An empty GUID.

### 3.1.4.33.2 GetAssociationMembersInRoleResponse

The **GetAssociationMembersInRoleResponse** element specifies the result data for the **GetAssociationMembersInRole** WSDL operation.

```
<xs:element name="GetAssociationMembersInRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationMembersInRoleResult" nillable="true"
        type="tns5:ArrayOfAssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationMembersInRoleResult:** The list of source or destination Entities.

### 3.1.4.33.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfAssociationMemberStruct</b>	Contains a list of relationships between Entities and Associations.
<b>AssociationMemberStruct</b>	Contains information about a specific relationship of an Entity and Association.

#### 3.1.4.33.3.1 ArrayOfAssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationships between Entities and Associations.

```
<xs:complexType name="ArrayOfAssociationMemberStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
      nillable="true" type="tns5:AssociationMemberStruct"/>
  </xs:sequence>
</xs:complexType>
```

**AssociationMemberStruct:** Contains information about the relationship between an Entity and an Association.

### 3.1.4.33.3.2 AssociationMemberStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an Entity and an Association.

```
<xs:complexType name="AssociationMemberStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
```

**\_entityName:** The name of the **Entity** that is referenced by the **Association**. If the **Entity** is active the value MUST be NULL. Otherwise, the value MUST have at least 1, at most 255 Unicode characters.

**\_entityNamespace:** The namespace of the **Entity** that is referenced by the **Association**. If the **Entity** is active the value MUST be NULL. Otherwise, the value MUST have at least 1, at most 255 Unicode characters.

**associationId:** The **MetadataObjectId** of the **Association** referencing the **Entity**. The value of this element MUST be in [1, 0x7fffffff] range.

**entityId:** The **MetadataObjectId** of the **Entity** that is referenced by the **Association**. If the **Entity** is active, the value MUST be in [1, 0x7fffffff] range. Otherwise, the value MUST be 0.

**partitionId:** An empty GUID.

**role:** Specifies whether the **Entity** is a source or the destination of the **Association**. The value of this element MUST be present in the following table.

Value	Description
0	The <b>Entity</b> is a source of the <b>Association</b> .
1	The <b>Entity</b> is the destination of the <b>Association</b> .

### 3.1.4.33.4 Simple Types

None.

### 3.1.4.33.5 Attributes

None.

### 3.1.4.33.6 Groups

None.

### 3.1.4.33.7 Attribute Groups

None.

### 3.1.4.34 GetAssociationReferencesForAssociationGroup

This operation is used to retrieve the AssociationReferences contained by the specified AssociationGroup.

The following is the WSDL port type specification of the **GetAssociationReferencesForAssociationGroup** WSDL operation.

```
<wsdl:operation name="GetAssociationReferencesForAssociationGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
putMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ou
tputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bd
cExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
validOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Me
tadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified AssociationGroup does not exist. <a href="#">&lt;43&gt;</a>

### 3.1.4.34.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage</b>	The request WSDL message for the <b>GetAssociationReferencesForAssociationGroup</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage</b>	The response WSDL message for the <b>GetAssociationReferencesForAssociationGroup</b> WSDL operation.

#### 3.1.4.34.1.1 BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_InputMessage

The request WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

The SOAP action value is:

The SOAP body contains the **GetAssociationReferencesForAssociationGroup** element.

### 3.1.4.34.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationReferencesForAssociationGroup\_OutputMessage**

The response WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

The SOAP body contains the **GetAssociationReferencesForAssociationGroupResponse** element.

### 3.1.4.34.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetAssociationReferencesForAssociationGroup</b>	The input data for the <b>GetAssociationReferencesForAssociationGroup</b> WSDL operation.
<b>GetAssociationReferencesForAssociationGroupResponse</b>	The result data for the <b>GetAssociationReferencesForAssociationGroup</b> WSDL operation.

#### 3.1.4.34.2.1 GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** element specifies the input data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

```
<xs:element name="GetAssociationReferencesForAssociationGroup"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationGroupId:** The MetadataObjectId for the AssociationGroup.

**partitionId:** An empty GUID.

#### 3.1.4.34.2.2 GetAssociationReferencesForAssociationGroupResponse

The **GetAssociationReferencesForAssociationGroupResponse** element specifies the result data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

```

<xs:element name="GetAssociationReferencesForAssociationGroupResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
        type="tns5:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAssociationReferencesForAssociationGroupResult:** The list of AssociationReferences. The Partition of each **AssociationReference** in the list MUST be an empty GUID.

### 3.1.4.34.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfAssociationReferenceStruct</b>	Contains a list of AssociationReferences.

#### 3.1.4.34.3.1 ArrayOfAssociationReferenceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type a list of AssociationReferences.

```

<xs:complexType name="ArrayOfAssociationReferenceStruct"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
      nillable="true" type="tns5:AssociationReferenceStruct"/>
  </xs:sequence>
</xs:complexType>

```

**AssociationReferenceStruct:** An AssociationReference.

#### 3.1.4.34.4 Simple Types

None.

#### 3.1.4.34.5 Attributes

None.

#### 3.1.4.34.6 Groups

None.

#### 3.1.4.34.7 Attribute Groups

None.



### 3.1.4.35 GetAssociationsForDataClass

This operation is used to retrieve the Associations that are contained by the specified DataClass.

The following is the WSDL port type specification of the **GetAssociationsForDataClass** WSDL operation.

```
<wsdl:operation name="GetAssociationsForDataClass"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRange
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>DataClass</b> does not exist. <44>

### 3.1.4.35.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage</b>	The request WSDL message for the <b>GetAssociationsForDataClass</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage</b>	The response WSDL message for the <b>GetAssociationsForDataClass</b> WSDL operation.

#### 3.1.4.35.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_InputMessage**

The request WSDL message for the **GetAssociationsForDataClass** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass
```

The SOAP body contains the **GetAssociationsForDataClass** element.

#### 3.1.4.35.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationsForDataClass\_OutputMessage**

The response WSDL message for the **GetAssociationsForDataClass** WSDL operation.

The SOAP body contains the **GetAssociationsForDataClassResponse** element.

### 3.1.4.35.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetAssociationsForDataClass</b>	The input data for the <b>GetAssociationsForDataClass</b> WSDL operation.
<b>GetAssociationsForDataClassResponse</b>	The result data for the <b>GetAssociationsForDataClass</b> WSDL operation.

### 3.1.4.35.2.1 GetAssociationsForDataClass

The **GetAssociationsForDataClass** element specifies the input data for the **GetAssociationsForDataClass** WSDL operation.

```
<xs:element name="GetAssociationsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId of the DataClass. The value of this element MUST be in [1, 0x7fffffff] range.

**partitionId:** An empty GUID.

### 3.1.4.35.2.2 GetAssociationsForDataClassResponse

The **GetAssociationsForDataClassResponse** element specifies the result data for the **GetAssociationsForDataClass** WSDL operation.

```
<xs:element name="GetAssociationsForDataClassResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true"
type="tns5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationsForDataClassResult:** The list of Associations.

### 3.1.4.35.3 Complex Types

None.

### 3.1.4.35.4 Simple Types

None.



```

message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST return with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is set to zero, or the <b>role</b> parameter is not set to zero or 1.
<b>MetadataObjectNotFoundExcepcionState</b> (section <a href="#">2.2.4.43</a> )	The specified Entity does not exist. <a href="#">&lt;45&gt;</a>

### 3.1.4.36.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage</b>	The request WSDL message for the <b>GetAssociationsForEntityAndRole</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage</b>	The response WSDL message for the <b>GetAssociationsForEntityAndRole</b> WSDL operation.

#### 3.1.4.36.1.1

### **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_InputMessage**

The request WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation.

The SOAP action value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole

The SOAP body contains the **GetAssociationsForEntityAndRole** element.

### 3.1.4.36.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationsForEntityAndRole\_OutputMessage**

The response WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation.

The SOAP body contains the **GetAssociationsForEntityAndRoleResponse** element.

### 3.1.4.36.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetAssociationsForEntityAndRole</b>	The input data for the <b>GetAssociationsForEntityAndRole</b> WSDL operation.
<b>GetAssociationsForEntityAndRoleResponse</b>	The result data for the <b>GetAssociationsForEntityAndRole</b> WSDL operation.

#### 3.1.4.36.2.1 GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** element specifies the input data for the **GetAssociationsForEntityAndRole** WSDL operation.

```
<xs:element name="GetAssociationsForEntityAndRole"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity.

**role:** Specifies whether the Entity is a source or the destination of the Association. The value of this element MUST be in the following table.

Value	Description
0	The <b>Entity</b> is a source of the <b>Association</b> .
1	The <b>Entity</b> is the destination of the <b>Association</b> .

**activeOnly:** Specifies whether to include the **Associations** that reference **Entities** those are not active in the result. For the purposes of this operation, an **Association** is considered to reference an **Entity** when that **Entity** is a source or the destination of the **Association**, or when the **Entity** contains the **Association**. The value of this parameter MUST be in the following table.

Value	Description
True	Return all <b>Associations</b> that match the search criteria.
False	Return <b>Associations</b> that match the search criteria only if they do not reference an <b>Entity</b> that is not active.

**partitionId:** An empty GUID.

### 3.1.4.36.2.2 GetAssociationsForEntityAndRoleResponse

The **GetAssociationsForEntityAndRoleResponse** element specifies the result data for the **GetAssociationsForEntityAndRole** WSDL operation.

```
<xs:element name="GetAssociationsForEntityAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetAssociationsForEntityAndRoleResult" nillable="true"
        type="tns5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationsForEntityAndRoleResult:** The list of Associations.

### 3.1.4.36.3 Complex Types

None.

### 3.1.4.36.4 Simple Types

None.

### 3.1.4.36.5 Attributes

None.

### 3.1.4.36.6 Groups

None.

### 3.1.4.36.7 Attribute Groups

None.

### 3.1.4.37 GetAssociationsForMethod

This operation is used to retrieve the Associations that are contained by the specified Method.

The following is the WSDL port type specification of the **GetAssociationsForMethod** WSDL operation.

```
<wsdl:operation name="GetAssociationsForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethod"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullException
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExc
eptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.



Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Method does not exist.<46>

### 3.1.4.37.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage</b>	The request WSDL message for the <b>GetAssociationsForMethod</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage</b>	The response WSDL message for the <b>GetAssociationsForMethod</b> WSDL operation.

#### 3.1.4.37.1.1

#### **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_InputMessage**

The request WSDL message for the **GetAssociationsForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod
```

The SOAP body contains the **GetAssociationsForMethod** element.

#### 3.1.4.37.1.2

#### **BusinessDataCatalogSharedService\_GetAssociationsForMethod\_OutputMessage**

The response WSDL message for the **GetAssociationsForMethod** WSDL operation.

The SOAP body contains the **GetAssociationsForMethodResponse** element.

### 3.1.4.37.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetAssociationsForMethod</b>	The input data for the <b>GetAssociationsForMethod</b> WSDL operation.
<b>GetAssociationsForMethodResponse</b>	The result data for the <b>GetAssociationsForMethod</b> WSDL operation.

Element	Description
	operation.

### 3.1.4.37.2.1 GetAssociationsForMethod

The **GetAssociationsForMethod** element specifies the input data for the **GetAssociationsForMethod** WSDL operation.

```
<xs:element name="GetAssociationsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method. The value of this element MUST be in [1, 0x7fffffff] range.

**partitionId:** The empty GUID.

### 3.1.4.37.2.2 GetAssociationsForMethodResponse

The **GetAssociationsForMethodResponse** element specifies the result data for the **GetAssociationsForMethod** WSDL operation.

```
<xs:element name="GetAssociationsForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="tns5:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAssociationsForMethodResult:** The list of Associations.

### 3.1.4.37.3 Complex Types

None.

### 3.1.4.37.4 Simple Types

None.

### 3.1.4.37.5 Attributes

None.



```

message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormat
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

### 3.1.4.38.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage</b>	The request WSDL message for the <b>GetCacheInvalidationRecordsSince</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage</b>	The response WSDL message for the <b>GetCacheInvalidationRecordsSince</b> WSDL operation.

#### 3.1.4.38.1.1

### **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_InputMessage**

The request WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
CacheInvalidationRecordsSince

```

The SOAP body contains the **GetCacheInvalidationRecordsSince** element.

#### 3.1.4.38.1.2

### **BusinessDataCatalogSharedService\_GetCacheInvalidationRecordsSince\_OutputMessage**

The response WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.

The SOAP body contains the **GetCacheInvalidationRecordsSinceResponse** element.

### 3.1.4.38.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetCacheInvalidationRecordsSince</b>	The input data for the <b>GetCacheInvalidationRecordsSince</b> WSDL operation.
<b>GetCacheInvalidationRecordsSinceResponse</b>	The result data for the <b>GetCacheInvalidationRecordsSince</b> WSDL operation.

#### 3.1.4.38.2.1 GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** element specifies the input data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```
<xs:element name="GetCacheInvalidationRecordsSince"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dateTime:** Deprecated.

#### 3.1.4.38.2.2 GetCacheInvalidationRecordsSinceResponse

The **GetCacheInvalidationRecordsSinceResponse** element specifies the result data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```
<xs:element name="GetCacheInvalidationRecordsSinceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetCacheInvalidationRecordsSinceResult" nillable="true"
        type="tns5:ArrayOfCacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetCacheInvalidationRecordsSinceResult:** Deprecated.

### 3.1.4.38.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfCacheInvalidationRecordStruct</b>	Contains a cache version stamps.
<b>CacheInvalidationRecordStruct</b>	Contains information about the version stamps for the cache.

### 3.1.4.38.3.1 ArrayOfCacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

```
<xs:complexType name="ArrayOfCacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="tns5:CacheInvalidationRecordStruct"/>
  </xs:sequence>
</xs:complexType>
```

**CacheInvalidationRecordStruct:** Deprecated.

### 3.1.4.38.3.2 CacheInvalidationRecordStruct

**Namespace:** Microsoft.SharePoint.BusinessData

```
<xs:complexType name="CacheInvalidationRecordStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
    <xs:element minOccurs="0" name="counter" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

**cacheLine:** Deprecated.

**counter:** Deprecated.

**partitionId:** Deprecated.

**timestamp:** Deprecated.

### 3.1.4.38.4 Simple Types

None.

### 3.1.4.38.5 Attributes

None.

### 3.1.4.38.6 Groups

None.

### 3.1.4.38.7 Attribute Groups

None.

### 3.1.4.39 GetChildTypeDescriptorsForTypeDescriptor

This operation is used to retrieve the TypeDescriptors contained by the specified **TypeDescriptor**.

The following is the WSDL port type specification of the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Input
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Outpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argum
entExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argum
entNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argum
entOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcEx
ceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Inval
idOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Metad
ataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section 2.2.4.43)	The specified TypeDescriptor does not exist. <48>

### 3.1.4.39.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetChildTypeDescriptorsForTypeDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetChildTypeDescriptorsForTypeDescriptor</b> WSDL operation.

#### 3.1.4.39.1.1

### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor`

The SOAP body contains the **GetChildTypeDescriptorsForTypeDescriptor** element.



### 3.1.4.39.1.2

#### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetChildTypeDescriptorsForTypeDescriptorResponse** element.

### 3.1.4.39.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetChildTypeDescriptorsForTypeDescriptor</b>	The input data for the <b>GetChildTypeDescriptorsForTypeDescriptor</b> WSDL operation.
<b>GetChildTypeDescriptorsForTypeDescriptorResponse</b>	The result data for the <b>GetChildTypeDescriptorsForTypeDescriptor</b> WSDL operation.

#### 3.1.4.39.2.1 GetChildTypeDescriptorsForTypeDescriptor

The **GetChildTypeDescriptorsForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentTypeDescriptorId:** The MetadataObjectId for the TypeDescriptor.

**partitionId:** An empty GUID.

#### 3.1.4.39.2.2 GetChildTypeDescriptorsForTypeDescriptorResponse

The **GetChildTypeDescriptorsForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
        type="tns5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetChildTypeDescriptorsForTypeDescriptorResult:** The list of TypeDescriptors.

### 3.1.4.39.3 Complex Types

None.

### 3.1.4.39.4 Simple Types

None.

### 3.1.4.39.5 Attributes

None.

### 3.1.4.39.6 Groups

None.

### 3.1.4.39.7 Attribute Groups

None.

## 3.1.4.40 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

This operation is used to retrieve the TypeDescriptors that reference Identifiers and are descendent **TypeDescriptors** of the specified **TypeDescriptor**. A given **TypeDescriptor** is a descendent of the specified **TypeDescriptor** if the **TypeDescriptor** that contains the given **TypeDescriptor** is also a descendent of the specified **TypeDescriptor**, or the **TypeDescriptor** is contained by the specified **TypeDescriptor** itself. [<49>](#)

The following is the WSDL port type specification of the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
    message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
    message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the specified <b>TypeDescriptor</b> is 0. <a href="#">&lt;50&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>TypeDescriptor</b> does not exist. <a href="#">&lt;51&gt;</a>

### 3.1.4.40.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> WSDL operation.

#### 3.1.4.40.1.1

##### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor`

The SOAP body contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element.

#### 3.1.4.40.1.2

##### **BusinessDataCatalogSharedService\_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element.

### 3.1.4.40.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b>	The input data for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> WSDL operation.
<b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse</b>	The result data for the <b>GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor</b> WSDL operation.

Element	Description
	<b>ypeDescriptor</b> WSDL operation.

### 3.1.4.40.2.1 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element specifies the input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="typeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorStruct:** The TypeDescriptor.

### 3.1.4.40.2.2 GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse

The **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element specifies the result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
        type="tns5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult:** The list of TypeDescriptors.

### 3.1.4.40.3 Complex Types

None.

### 3.1.4.40.4 Simple Types

None.

### 3.1.4.40.5 Attributes

None.

### 3.1.4.40.6 Groups

None.

### 3.1.4.40.7 Attribute Groups

None.

### 3.1.4.41 GetDataClassById

This operation is used to retrieve the DataClass with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetDataClassById** WSDL operation.

```
<wsdl:operation name="GetDataClassById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section 2.2.4.43)	A <b>DataClass</b> with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.41.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetDataClassById_InputMessage</b>	The request WSDL message for the <b>GetDataClassById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetDataClassById_OutputMessage</b>	The response WSDL message for the <b>GetDataClassById</b> WSDL operation.

#### 3.1.4.41.1.1

### **BusinessDataCatalogSharedService\_GetDataClassById\_InputMessage**

The request WSDL message for the **GetDataClassById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById
```

The SOAP body contains the **GetDataClassById** element.

#### 3.1.4.41.1.2

### **BusinessDataCatalogSharedService\_GetDataClassById\_OutputMessage**

The response WSDL message for the **GetDataClassById** WSDL operation.

The SOAP body contains the **GetDataClassByIdResponse** element.

### 3.1.4.41.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetDataClassById</b>	The input data for the <b>GetDataClassById</b> WSDL operation.
<b>GetDataClassByIdResponse</b>	The result data for the <b>GetDataClassById</b> WSDL operation.

#### 3.1.4.41.2.1 GetDataClassById

The **GetDataClassById** element specifies the input data for the **GetDataClassById** WSDL operation.

```
<xs:element name="GetDataClassById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId of the DataClass.

**performErrorCheck:** The value of this element MUST be ignored if a **DataClass** with the specified **MetadataObjectId** exists. If a **DataClass** with the specified **MetadataObjectId** does not exist and the value of this element is **false**, the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

**partitionId:** The empty GUID.

#### 3.1.4.41.2.2 GetDataClassByIdResponse

The **GetDataClassByIdResponse** element specifies the result data for the **GetDataClassById** WSDL operation.

```
<xs:element name="GetDataClassByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="tns5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDataClassByIdResult:** The DataClass.

#### 3.1.4.41.3 Complex Types

None.





```

message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends

**BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist.<52>

### 3.1.4.42.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage</b>	The request WSDL message for the <b>GetDataClassesForSystem</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage</b>	The response WSDL message for the <b>GetDataClassesForSystem</b> WSDL operation.

#### 3.1.4.42.1.1

### **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_InputMessage**

The request WSDL message for the **GetDataClassesForSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
DataClassesForSystem

```

The SOAP body contains the **GetDataClassesForSystem** element.

#### 3.1.4.42.1.2

### **BusinessDataCatalogSharedService\_GetDataClassesForSystem\_OutputMessage**

The response WSDL message for the **GetDataClassesForSystem** WSDL operation.

The SOAP body contains the **GetDataClassesForSystemResponse** element.

#### 3.1.4.42.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetDataClassesForSystem</b>	The input data for the <b>GetDataClassesForSystem</b> WSDL operation.
<b>GetDataClassesForSystemResponse</b>	The result data for the <b>GetDataClassesForSystem</b> WSDL operation.

#### 3.1.4.42.2.1 GetDataClassesForSystem

The **GetDataClassesForSystem** element specifies the input data for the **GetDataClassesForSystem** WSDL operation.

```
<xs:element name="GetDataClassesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**activeOnly:** Which DataClasses to return. If the value is **true**, only the active **DataClasses** MUST be returned. Otherwise, this operation MUST return **DataClasses** contained by the specified LobSystem, regardless of their active status.

**partitionId:** The empty GUID.

#### 3.1.4.42.2.2 GetDataClassesForSystemResponse

The **GetDataClassesForSystemResponse** element specifies the result data for the **GetDataClassesForSystem** WSDL operation.

```
<xs:element name="GetDataClassesForSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassesForSystemResult" nillable="true" type="tns5:ArrayOfDataClassStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetDataClassesForSystemResult:** The list of DataClasses.

### 3.1.4.42.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfDataClassStruct</b>	Contains a list of DataClasses.

#### 3.1.4.42.3.1 ArrayOfDataClassStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list DataClasses.

```

<xs:complexType name="ArrayOfDataClassStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="tns5:DataClassStruct"/>
  </xs:sequence>
</xs:complexType>

```

**DataClassStruct:** A DataClass.

#### 3.1.4.42.4 Simple Types

None.

#### 3.1.4.42.5 Attributes

None.

#### 3.1.4.42.6 Groups

None.

#### 3.1.4.42.7 Attribute Groups

None.

### 3.1.4.43 GetDefaultValuesForTypeDescriptor

This operation is used to retrieve the DefaultValues of the specified TypeDescriptor.

The following is the WSDL port type specification of the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<wsdl:operation name="GetDefaultValuesForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutO
fRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcException
StateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOpera
tionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section <a href="#">2.2.4.43</a> )	A TypeDescriptor with specified <b>MetadataObjectId</b> does not exist.

### 3.1.4.43.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetDefaultValuesForTypeDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetDefaultValuesForTypeDescriptor</b> WSDL operation.

#### 3.1.4.43.1.1

### **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor`

The SOAP body contains the **GetDefaultValuesForTypeDescriptor** element.

#### 3.1.4.43.1.2

### **BusinessDataCatalogSharedService\_GetDefaultValuesForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetDefaultValuesForTypeDescriptorResponse** element.

### 3.1.4.43.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetDefaultValuesForTypeDescriptor</b>	The input data for the <b>GetDefaultValuesForTypeDescriptor</b> WSDL operation.
<b>GetDefaultValuesForTypeDescriptorResponse</b>	The result data for the <b>GetDefaultValuesForTypeDescriptor</b> WSDL operation.

### 3.1.4.43.2.1 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** element specifies the input data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="GetDefaultValuesForTypeDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorId:** The MetadataObjectId for the TypeDescriptor.

**partitionId:** An empty GUID.

### 3.1.4.43.2.2 GetDefaultValuesForTypeDescriptorResponse

The **GetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="GetDefaultValuesForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
type="tns5:ArrayOfDefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDefaultValuesForTypeDescriptorResult:** The DefaultValue of the specified TypeDescriptor.

### 3.1.4.43.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfDefaultValueStruct</b>	Contains a list of DefaultValue.

### 3.1.4.43.3.1 ArrayOfDefaultValueStruct

**Namespace:** Microsoft.SharePoint.BusinessData

A complex type that specifies a list of DefaultValue.

```
<xs:complexType name="ArrayOfDefaultValueStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true"
      type="tns5:DefaultValueStruct"/>
  </xs:sequence>
</xs:complexType>
```

**DefaultValueStruct:** A DefaultValue.

### 3.1.4.43.4 Simple Types

None.

### 3.1.4.43.5 Attributes

None.

### 3.1.4.43.6 Groups

None.

### 3.1.4.43.7 Attribute Groups

None.

### 3.1.4.44 GetEntitiesForAssociationAndRole

This operation is used to retrieve the Entities performing the role of source or destination for the specified Association.

The following is the WSDL port type specification of the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<wsdl:operation name="GetEntitiesForAssociationAndRole"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleResponse"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOf
RangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperat
ionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage**

request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage**

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified MetadataObjectId is 0.</li> <li>▪ The <b>role</b> parameter is not set to zero or 1. <a href="#">&lt;53&gt;</a></li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section	The specified Association does not

Error complex type	Condition
2.2.4.43)	exist.<54>

### 3.1.4.44.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage</b>	The request WSDL message for the <b>GetEntitiesForAssociationAndRole</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesForAssociationAndRole</b> WSDL operation.

#### 3.1.4.44.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_InputMessage**

The request WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole
```

The SOAP body contains the **GetEntitiesForAssociationAndRole** element.

#### 3.1.4.44.1.2

### **BusinessDataCatalogSharedService\_GetEntitiesForAssociationAndRole\_OutputMessage**

The response WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

The SOAP body contains the **GetEntitiesForAssociationAndRoleResponse** element.

### 3.1.4.44.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntitiesForAssociationAndRole</b>	The input data for the <b>GetEntitiesForAssociationAndRole</b> WSDL operation.
<b>GetEntitiesForAssociationAndRoleResponse</b>	The result data for the <b>GetEntitiesForAssociationAndRole</b> WSDL operation.

### 3.1.4.44.2.1 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** element specifies the input data for the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntitiesForAssociationAndRole"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationId:** The MetadataObjectId of the Association.

**role:** Specifies what Entities to be returned. Its value MUST be in the following table.

Value	Description
0	The <b>Entities</b> are sources of the <b>Association</b> .
1	The <b>Entities</b> are destinations of the <b>Association</b> .

**activeOnly:** This element MUST contain the information about what **Entities** to be returned. If its value is **true**, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An empty GUID.

### 3.1.4.44.2.2 GetEntitiesForAssociationAndRoleResponse

The **GetEntitiesForAssociationAndRoleResponse** element specifies the result data for the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntitiesForAssociationAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesForAssociationAndRoleResult" nillable="true"
        type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntitiesForAssociationAndRoleResult:** The list of Entities.

### 3.1.4.44.3 Complex Types

None.

### 3.1.4.44.4 Simple Types

None.

### 3.1.4.44.5 Attributes

None.

### 3.1.4.44.6 Groups

None.

### 3.1.4.44.7 Attribute Groups

None.

### 3.1.4.45 GetEntitiesForSystem

This operation is used to retrieve Entities of the specified LobSystem.

The following is the WSDL port type specification of the **GetEntitiesForSystem** WSDL operation.

```
<wsdl:operation name="GetEntitiesForSystem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystem"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemResponse"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExpectionState</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist. <a href="#">&lt;55&gt;</a>

### 3.1.4.45.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage</b>	The request WSDL message for the <b>GetEntitiesForSystem</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesForSystem</b> WSDL operation.

#### 3.1.4.45.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesForSystem\_InputMessage**

The request WSDL message for the **GetEntitiesForSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
EntitiesForSystem

```

The SOAP body contains the **GetEntitiesForSystem** element.

### 3.1.4.45.1.2

#### BusinessDataCatalogSharedService\_GetEntitiesForSystem\_OutputMessage

The response WSDL message for the **GetEntitiesForSystem** WSDL operation.

The SOAP body contains the **GetEntitiesForSystemResponse** element.

### 3.1.4.45.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntitiesForSystem</b>	The input data for the <b>GetEntitiesForSystem</b> WSDL operation.
<b>GetEntitiesForSystemResponse</b>	The result data for the <b>GetEntitiesForSystem</b> WSDL operation.

#### 3.1.4.45.2.1 GetEntitiesForSystem

The **GetEntitiesForSystem** element specifies the input data for the **GetEntitiesForSystem** WSDL operation.

```
<xs:element name="GetEntitiesForSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**activeOnly:** This element MUST contain the information about what Entities to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An empty GUID.

#### 3.1.4.45.2.2 GetEntitiesForSystemResponse

The **GetEntitiesForSystemResponse** element specifies the result data for the **GetEntitiesForSystem** WSDL operation.

```
<xs:element name="GetEntitiesForSystemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**GetEntitiesForSystemResult:** The list of Entities.

### 3.1.4.45.3 Complex Types

None.

### 3.1.4.45.4 Simple Types

None.

### 3.1.4.45.5 Attributes

None.

### 3.1.4.45.6 Groups

None.

### 3.1.4.45.7 Attribute Groups

None.

### 3.1.4.46 GetEntitiesLikeNameAndNamespace

This operation is used to retrieve the Entities that match the specified wildcard patterns for name and namespace.

An **Entity** matches the pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Entity**, or the localized name of the **Entity** with LCID 0, or the localized name of the **Entity** with the LCID specified by **callerCultureLcid**.

An **Entity** matches the pattern specified by **wildcardedNamespace** if and only if **wildcardedNamespace** matches the namespace of the **Entity**.

The following is the WSDL port type specification of the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<wsdl:operation name="GetEntitiesLikeNameAndNamespace"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse"
    message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
    name="ArgumentExceptionFault"/>
```

```

message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfR
angeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExcept
ionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The length of the <b>wildcardedName</b> exceeds 255 characters.</li> <li>▪ The length of the <b>wildcardedNamespace</b> exceeds 255 characters.</li> <li>▪ The specified <b>wildcardedName</b> is invalid.</li> <li>▪ The specified <b>wildcardedNamespace</b> is invalid.</li> </ul>



### 3.1.4.46.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage</b>	The request WSDL message for the <b>GetEntitiesLikeNameAndNamespace</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesLikeNameAndNamespace</b> WSDL operation.

#### 3.1.4.46.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_InputMessage**

The request WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace>

The SOAP body contains the **GetEntitiesLikeNameAndNamespace** element.

#### 3.1.4.46.1.2

### **BusinessDataCatalogSharedService\_GetEntitiesLikeNameAndNamespace\_OutputMessage**

The response WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

The SOAP body contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

### 3.1.4.46.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntitiesLikeNameAndNamespace</b>	The input data for the <b>GetEntitiesLikeNameAndNamespace</b> WSDL operation.
<b>GetEntitiesLikeNameAndNamespaceResponse</b>	The result data for the <b>GetEntitiesLikeNameAndNamespace</b> WSDL operation.

### 3.1.4.46.2.1 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** element specifies the input data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntitiesLikeNameAndNamespace"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**wildcardedNamespace:** The wildcard pattern to be used to retrieve the Entities whose namespace matches the wildcard pattern.

Following is the ABNF for the **wildcardedNamespace**:

```
wildcardedNamespace = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the namespace of the **Entities** with the value of **wildcardedNamespace** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = * (%x00-FF)
```

**wildcardedName:** The wildcard pattern to be used to retrieve the **Entities** whose name or localized name matches the wildcard pattern.

Following is the ABNF for the **wildcardedName**:

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server **MUST** match the name or localized name of the **Entities** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

**callerCultureLcid:** The LCID representing the locale to be used when retrieving the LobSystems.

**activeOnly:** This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An empty GUID.

### 3.1.4.46.2.2 GetEntitiesLikeNameAndNamespaceResponse

The **GetEntitiesLikeNameAndNamespaceResponse** element specifies the result data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetEntitiesLikeNameAndNamespaceResult" nillable="true"
        type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntitiesLikeNameAndNamespaceResult:** The list of Entities.

### 3.1.4.46.3 Complex Types

None.

### 3.1.4.46.4 Simple Types

None.

### 3.1.4.46.5 Attributes

None.

### 3.1.4.46.6 Groups

None.

### 3.1.4.46.7 Attribute Groups

None.

### 3.1.4.47 GetEntitiesReferencedByModelId

This operation is used to retrieve Entities which are referenced by the specified Model.

The following is the WSDL port type specification of the **GetEntitiesReferencedByModelId** WSDL operation.

```
<wsdl:operation name="GetEntitiesReferencedByModelId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Model does not exist.<56>

### 3.1.4.47.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage</b>	The request WSDL message for the <b>GetEntitiesReferencedByModelId</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage</b>	The response WSDL message for the <b>GetEntitiesReferencedByModelId</b> WSDL operation.

#### 3.1.4.47.1.1

### **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_InputMessage**

The request WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId
```

The SOAP body contains the **GetEntitiesReferencedByModelId** element.

#### 3.1.4.47.1.2

### **BusinessDataCatalogSharedService\_GetEntitiesReferencedByModelId\_OutputMessage**

The response WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

The SOAP body contains the **GetEntitiesReferencedByModelIdResponse** element.

### 3.1.4.47.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntitiesReferencedByModelId</b>	The input data for the <b>GetEntitiesReferencedByModelId</b> WSDL operation.

Element	Description
<b>GetEntitiesReferencedByModelIdResponse</b>	The result data for the <b>GetEntitiesReferencedByModelId</b> WSDL operation.

### 3.1.4.47.2.1 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** element specifies the input data for the **GetEntitiesReferencedByModelId** WSDL operation.

```
<xs:element name="GetEntitiesReferencedByModelId"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="mode"
type="tns4:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectId:** The MetadataObjectId of the Model.

**mode:** Specifies which Entities to be returned. The value of this element is specified in section [3.1.4.47.4.1](#).

**activeOnly:** This element MUST contain the information about what **Entities** to be returned. If its value is true, the returned **Entities** MUST be all active. Otherwise, this operation MUST return **Entities** regardless of the active status.

**partitionId:** An empty GUID.

### 3.1.4.47.2.2 GetEntitiesReferencedByModelIdResponse

The **GetEntitiesReferencedByModelIdResponse** element specifies the result data for the **GetEntitiesReferencedByModelId** WSDL operation.

```
<xs:element name="GetEntitiesReferencedByModelIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesReferencedByModelIdResult" nillable="true" type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntitiesReferencedByModelIdResult:** The list of Entities.

### 3.1.4.47.3 Complex Types

None.

### 3.1.4.47.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>EntityConstants.EntitiesInModelQuery</b>	Contains a list of Entities to be returned.

#### 3.1.4.47.4.1 EntityConstants.EntitiesInModelQuery

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants

Specifies which Entities to be returned.

```
<xs:simpleType name="EntityConstants.EntitiesInModelQuery"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllEntitiesInModel"/>
    <xs:enumeration value="OwnedEntitiesInModel"/>
    <xs:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **EntityConstants.EntitiesInModelQuery** simple type.

Value	Meaning
AllEntitiesInModel	Return all <b>Entities</b> referenced by the specified Model.
OwnedEntitiesInModel	Returned <b>Entities</b> MUST be referenced only in the specified <b>Model</b> .
SharedEntitiesInModel	Returned <b>Entities</b> MUST be referenced in the specified <b>Model</b> and in other <b>Models</b> .

### 3.1.4.47.5 Attributes

None.

### 3.1.4.47.6 Groups

None.

### 3.1.4.47.7 Attribute Groups

None.

### 3.1.4.48 GetEntityById

This operation is used to retrieve the Entity with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetEntityById** WSDL operation.

```
<wsdl:operation name="GetEntityById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.



Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An Entity with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.48.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityById_InputMessage</b>	The request WSDL message for the <b>GetEntityById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntityById_OutputMessage</b>	The response WSDL message for the <b>GetEntityById</b> WSDL operation.

#### 3.1.4.48.1.1 BusinessDataCatalogSharedService\_GetEntityById\_InputMessage

The request WSDL message for the **GetEntityById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById
```

The SOAP body contains the **GetEntityById** element.

#### 3.1.4.48.1.2 BusinessDataCatalogSharedService\_GetEntityById\_OutputMessage

The response WSDL message for the **GetEntityById** WSDL operation.

The SOAP body contains the **GetEntityByIdResponse** element.

### 3.1.4.48.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntityById</b>	The input data for the <b>GetEntityById</b> WSDL operation.
<b>GetEntityByIdResponse</b>	The result data for the <b>GetEntityById</b> WSDL operation.

### 3.1.4.48.2.1 GetEntityById

The **GetEntityById** element specifies the input data for the **GetEntityById** WSDL operation.

```
<xs:element name="GetEntityById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity.

**performErrorCheck:** The value of this element MUST be ignored if an **Entity** with the specified MetadataObjectId exists. If an **Entity** with the specified **MetadataObjectId** does not exist and the value of this element is false, the protocol server MUST set the value of the **GetEntityByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.48.2.2 GetEntityByIdResponse

The **GetEntityByIdResponse** element specifies the result data for the **GetEntityById** WSDL operation.

```
<xs:element name="GetEntityByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntityByIdResult:** The Entity.

### 3.1.4.48.3 Complex Types

None.

### 3.1.4.48.4 Simple Types

None.

### 3.1.4.48.5 Attributes

None.

### 3.1.4.48.6 Groups

None.

### 3.1.4.48.7 Attribute Groups

None.

### 3.1.4.49 GetEntityCount

This operation retrieves the number of Entity elements that are contained by the specified LobSystem.

The following is the WSDL port type specification of the **GetEntityCount** WSDL operation.

```
<wsdl:operation name="GetEntityCount" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCount"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is set to zero. <57>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified LobSystem does not exist.<58>

### 3.1.4.49.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityCount_InputMessage</b>	The request WSDL message for the <b>GetEntityCount</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntityCount_OutputMessage</b>	The response WSDL message for the <b>GetEntityCount</b> WSDL operation.

#### 3.1.4.49.1.1 BusinessDataCatalogSharedService\_GetEntityCount\_InputMessage

The request WSDL message for the **GetEntityCount** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount
```

The SOAP body contains the **GetEntityCount** element.

#### 3.1.4.49.1.2 BusinessDataCatalogSharedService\_GetEntityCount\_OutputMessage

The response WSDL message for the **GetEntityCount** WSDL operation.

The SOAP body contains the **GetEntityCountResponse** element.

### 3.1.4.49.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntityCount</b>	The input data for the <b>GetEntityCount</b> WSDL operation.
<b>GetEntityCountResponse</b>	The result data for the <b>GetEntityCount</b> WSDL operation.

### 3.1.4.49.2.1 GetEntityCount

The **GetEntityCount** element specifies the input data for the **GetEntityCount** WSDL operation.

```
<xs:element name="GetEntityCount" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**partitionId:** An empty GUID.

### 3.1.4.49.2.2 GetEntityCountResponse

The **GetEntityCountResponse** element specifies the result data for the **GetEntityCount** WSDL operation.

```
<xs:element name="GetEntityCountResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntityCountResult:** The number of Entity elements contained by the specified LobSystem.

### 3.1.4.49.3 Complex Types

None.

### 3.1.4.49.4 Simple Types

None.

### 3.1.4.49.5 Attributes

None.

### 3.1.4.49.6 Groups

None.

### 3.1.4.49.7 Attribute Groups

None.

### 3.1.4.50 GetEntityNameAndNamespacesForAssociationAndRole

This operation is used to retrieve the names and namespaces of Entities which are referenced by the specified Association. Only **Entities** in the specified association **role** of source or destination are returned.

The following is the WSDL port type specification of the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_ArgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_BdcExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Metad
ataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Association does not exist. <a href="#">&lt;59&gt;</a>

### 3.1.4.50.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage</b>	The request WSDL message for the <b>GetEntityNameAndNamespacesForAssociationAndRole</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage</b>	The response WSDL message for the <b>GetEntityNameAndNamespacesForAssociationAndRole</b> WSDL operation.

#### 3.1.4.50.1.1

### **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_InputMessage**

The request WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole

```

The SOAP body contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

### 3.1.4.50.1.2

#### **BusinessDataCatalogSharedService\_GetEntityNameAndNamespacesForAssociationAndRole\_OutputMessage**

The response WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

The SOAP body contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

### 3.1.4.50.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntityNameAndNamespacesForAssociationAndRole</b>	The input data for the <b>GetEntityNameAndNamespacesForAssociationAndRole</b> WSDL operation.
<b>GetEntityNameAndNamespacesForAssociationAndRoleResponse</b>	The result data for the <b>GetEntityNameAndNamespacesForAssociationAndRole</b> WSDL operation.

#### 3.1.4.50.2.1 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** element specifies the input data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**associationId:** The MetadataObjectId of the Association for which the Entity information is to be returned.

**role:** An **unsignedByte** value that specifies whether to return information for the **Entities** that are referenced as **Association** source or **Association** destination by the specified **Association**. The value of this parameter MUST be listed in the following table.

Possible parameter values:



Value	Description
0	Return information for <b>Entities</b> that are referenced as <b>Association</b> source by the specified <b>Association</b> .
1	Return information for <b>Entities</b> that are referenced as <b>Association</b> destination by the specified <b>Association</b> .

**partitionId:** An empty GUID.

### 3.1.4.50.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse

The **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element specifies the result data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="namespaces" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="names" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**namespaces:** The namespaces of the Entities that are referenced by the specified Association in the specified role of source or destination.

**names:** The names of the **Entities** that are referenced by the specified **Association** in the specified role of source or destination. The order of these names **MUST** correspond to the order of **namespaces**, so that the nth name and the nth namespace together describe the name and namespace of a single **Entity**.

### 3.1.4.50.3 Complex Types

None.

### 3.1.4.50.4 Simple Types

None.

### 3.1.4.50.5 Attributes

None.

### 3.1.4.50.6 Groups

None.

### 3.1.4.50.7 Attribute Groups

None.

### 3.1.4.51 GetEntityWithNameAndNamespace

This operation is used to retrieve the active Entity with the specified name and namespace in the specified Partition.

The following is the WSDL port type specification of the **GetEntityWithNameAndNamespace** WSDL operation.

```
<wsdl:operation name="GetEntityWithNameAndNamespace"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified namespace length exceeds 255 characters.</li> <li>The specified name length exceeds 255 characters.</li> </ul>
<b>MetadataObjectNotFoundExcepState</b> (section 2.2.4.43)	An active Entity with the specified namespace and name does not exist in the specified Partition.

### 3.1.4.51.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage</b>	The request WSDL message for the <b>GetEntityWithNameAndNamespace</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage</b>	The response WSDL message for the <b>GetEntityWithNameAndNamespace</b> WSDL operation.

#### 3.1.4.51.1.1

### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_InputMessage**

The request WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace>

The SOAP body contains the **GetEntityWithNameAndNamespace** element.

#### 3.1.4.51.1.2

### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespace\_OutputMessage**

The response WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

The SOAP body contains the **GetEntityWithNameAndNamespaceResponse** element.

### 3.1.4.51.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntityWithNameAndNamespace</b>	The input data for the <b>GetEntityWithNameAndNamespace</b> WSDL operation.
<b>GetEntityWithNameAndNamespaceResponse</b>	The result data for the <b>GetEntityWithNameAndNamespace</b> WSDL operation.

#### 3.1.4.51.2.1 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** element specifies the input data for the **GetEntityWithNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespace" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**namespace:** The namespace of the Entity to be returned.

**name:** The name of the **Entity** to be returned.

**partitionId:** An empty GUID.

#### 3.1.4.51.2.2 GetEntityWithNameAndNamespaceResponse

The **GetEntityWithNameAndNamespaceResponse** element specifies the result data for the **GetEntityWithNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEntityWithNameAndNamespaceResult:** The Entity.

### 3.1.4.51.3 Complex Types

None.

### 3.1.4.51.4 Simple Types

None.

### 3.1.4.51.5 Attributes

None.

### 3.1.4.51.6 Groups

None.

### 3.1.4.51.7 Attribute Groups

None.

### 3.1.4.52 GetEntityWithNameAndNamespaceAndVersion

This operation is used to retrieve the Entity with the specified name, namespace, and version.

The following is the WSDL port type specification of the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersion"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Outpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExc
eptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invali
dOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metada
taExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_Input Message** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section 2.2.4.7)	One of the following conditions applies: <ul style="list-style-type: none"> <li>The specified namespace length exceeds 255 characters.</li> <li>The specified name length exceeds 255 characters.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	An <b>Entity</b> with the specified namespace and name and version does not exist in the specified Partition.

### 3.1.4.52.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage</b>	The request WSDL message for the <b>GetEntityWithNameAndNamespaceAndVersion</b> WSDL

Message	Description
	operation.
<b>BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage</b>	The response WSDL message for the <b>GetEntityWithNameAndNamespaceAndVersion</b> WSDL operation.

### 3.1.4.52.1.1

#### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_InputMessage**

The request WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion
```

The SOAP body contains the **GetEntityWithNameAndNamespaceAndVersion** element.

### 3.1.4.52.1.2

#### **BusinessDataCatalogSharedService\_GetEntityWithNameAndNamespaceAndVersion\_OutputMessage**

The response WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

The SOAP body contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

### 3.1.4.52.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetEntityWithNameAndNamespaceAndVersion</b>	The input data for the <b>GetEntityWithNameAndNamespaceAndVersion</b> WSDL operation.
<b>GetEntityWithNameAndNamespaceAndVersionResponse</b>	The result data for the <b>GetEntityWithNameAndNamespaceAndVersion</b> WSDL operation.

#### 3.1.4.52.2.1 **GetEntityWithNameAndNamespaceAndVersion**

The **GetEntityWithNameAndNamespaceAndVersion** element specifies the input data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```

<xs:element name="GetEntityWithNameAndNamespaceAndVersion"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q1:Version"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**namespace:** The namespace of the Entity to be returned.

**name:** The name of the **Entity** to be returned.

**version:** The version of the **Entity** to be returned.

**partitionId:** An empty GUID.

### 3.1.4.52.2.2 GetEntityWithNameAndNamespaceAndVersionResponse

The **GetEntityWithNameAndNamespaceAndVersionResponse** element specifies the result data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```

<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true"
type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetEntityWithNameAndNamespaceAndVersionResult:** The Entity.

### 3.1.4.52.3 Complex Types

None.

### 3.1.4.52.4 Simple Types

None.

### 3.1.4.52.5 Attributes

None.

### 3.1.4.52.6 Groups

None.



### 3.1.4.52.7 Attribute Groups

None.

### 3.1.4.53 GetFieldTypeDescriptorsByMethodInstance

This operation is used to retrieve TypeDescriptors that correspond to fields (4) for the MethodInstance with the specified name on the specified Entity.

The following is the WSDL port type specification of the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceResponse"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a

**BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The <b>MethodInstanceType</b> of the MethodInstance with the specified name on the specified Entity is not equal to any one of the following: <ul style="list-style-type: none"> <li>▪ Finder</li> <li>▪ SpecificFinder</li> <li>▪ IdEnumerator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ Creator</li> <li>▪ Updater</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A <b>MethodInstance</b> with the specified name does not exist on the specified <b>Entity</b> .

### 3.1.4.53.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage</b>	The request WSDL message for the <b>GetFieldTypeDescriptorsByMethodInstance</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage</b>	The response WSDL message for the <b>GetFieldTypeDescriptorsByMethodInstance</b> WSDL operation.

Message	Description
	<b>thodInstance</b> WSDL operation.

### 3.1.4.53.1.1

#### **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_InputMessage**

The request WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance
```

The SOAP body contains the **GetFieldTypeDescriptorsByMethodInstance** element.

### 3.1.4.53.1.2

#### **BusinessDataCatalogSharedService\_GetFieldTypeDescriptorsByMethodInstance\_OutputMessage**

The response WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

The SOAP body contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

### 3.1.4.53.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetFieldTypeDescriptorsByMethodInstance</b>	The input data for the <b>GetFieldTypeDescriptorsByMethodInstance</b> WSDL operation.
<b>GetFieldTypeDescriptorsByMethodInstanceResponse</b>	The result data for the <b>GetFieldTypeDescriptorsByMethodInstance</b> WSDL operation.

#### 3.1.4.53.2.1 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** element specifies the input data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstance"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodName" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    

```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**methodName:** The name of the MethodInstance.

**entityStruct:** The Entity.

### 3.1.4.53.2 GetFieldTypeDescriptorsByMethodInstanceResponse

The **GetFieldTypeDescriptorsByMethodInstanceResponse** element specifies the result data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
        type="tns5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFieldTypeDescriptorsByMethodInstanceResult:** The list of TypeDescriptors.

### 3.1.4.53.3 Complex Types

None.

### 3.1.4.53.4 Simple Types

None.

### 3.1.4.53.5 Attributes

None.

### 3.1.4.53.6 Groups

None.

### 3.1.4.53.7 Attribute Groups

None.

### 3.1.4.54 GetFilterDescriptorById

This operation is used to retrieve the FilterDescriptor with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetFilterDescriptorById** WSDL operation.

```
<wsdl:operation name="GetFilterDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorById"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section	The specified MetadataObjectId is 0.

Error complex type	Condition
<a href="#">2.2.4.9</a> )	
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A FilterDescriptor with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.54.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage</b>	The request WSDL message for the <b>GetFilterDescriptorById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage</b>	The response WSDL message for the <b>GetFilterDescriptorById</b> WSDL operation.

#### 3.1.4.54.1.1

#### **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_InputMessage**

The request WSDL message for the **GetFilterDescriptorById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById
```

The SOAP body contains the **GetFilterDescriptorById** element.

#### 3.1.4.54.1.2

#### **BusinessDataCatalogSharedService\_GetFilterDescriptorById\_OutputMessage**

The response WSDL message for the **GetFilterDescriptorById** WSDL operation.

The SOAP body contains the **GetFilterDescriptorByIdResponse** element.

### 3.1.4.54.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetFilterDescriptorById</b>	The input data for the <b>GetFilterDescriptorById</b> WSDL operation.
<b>GetFilterDescriptorByIdResponse</b>	The result data for the <b>GetFilterDescriptorById</b> WSDL operation.

### 3.1.4.54.2.1 GetFilterDescriptorById

The **GetFilterDescriptorById** element specifies the input data for the **GetFilterDescriptorById** WSDL operation.

```
<xs:element name="GetFilterDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**filterDescriptorId:** The MetadataObjectId of the FilterDescriptor.

**performErrorCheck:** The value of this element MUST be ignored if a **FilterDescriptor** with the specified **MetadataObjectId** exists. If a **FilterDescriptor** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetFilterDescriptorByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.54.2.2 GetFilterDescriptorByIdResponse

The **GetFilterDescriptorByIdResponse** element specifies the result data for the **GetFilterDescriptorById** WSDL operation.

```
<xs:element name="GetFilterDescriptorByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="tns5:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFilterDescriptorByIdResult:** The FilterDescriptor that was returned.

### 3.1.4.54.3 Complex Types

None.

### 3.1.4.54.4 Simple Types

None.

### 3.1.4.54.5 Attributes

None.

### 3.1.4.54.6 Groups

None.

### 3.1.4.54.7 Attribute Groups

None.

### 3.1.4.55 GetFilterDescriptorsForMethod

This operation is used to retrieve the FilterDescriptors contained by the specified Method.

The following is the WSDL port type specification of the **GetFilterDescriptorsForMethod** WSDL operation.

```
<wsdl:operation name="GetFilterDescriptorsForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRan
geExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStat
eFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperati
onExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptio
nStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the Method is 0.<60>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A <b>Method</b> with the specified <b>MetadataObjectId</b> does not exist.<61>

### 3.1.4.55.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage</b>	The request WSDL message for the <b>GetFilterDescriptorsForMethod</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage</b>	The response WSDL message for the <b>GetFilterDescriptorsForMethod</b> WSDL operation.

#### 3.1.4.55.1.1

### **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_InputMessage**

The request WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod
```

The SOAP body contains the **GetFilterDescriptorsForMethod** element.

### 3.1.4.55.1.2

#### **BusinessDataCatalogSharedService\_GetFilterDescriptorsForMethod\_OutputMessage**

The response WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

The SOAP body contains the **GetFilterDescriptorsForMethodResponse** element.

### 3.1.4.55.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetFilterDescriptorsForMethod</b>	The input data for the <b>GetFilterDescriptorsForMethod</b> WSDL operation.
<b>GetFilterDescriptorsForMethodResponse</b>	The result data for the <b>GetFilterDescriptorsForMethod</b> WSDL operation.

#### 3.1.4.55.2.1 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** element specifies the input data for the **GetFilterDescriptorsForMethod** WSDL operation.

```
<xs:element name="GetFilterDescriptorsForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method for which the FilterDescriptors are obtained.

**partitionId:** An empty GUID.

#### 3.1.4.55.2.2 GetFilterDescriptorsForMethodResponse

The **GetFilterDescriptorsForMethodResponse** element specifies the result data for the **GetFilterDescriptorsForMethod** WSDL operation.

```
<xs:element name="GetFilterDescriptorsForMethodResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetFilterDescriptorsForMethodResult" nillable="true"
        type="tns5:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFilterDescriptorsForMethodResult:** The list of FilterDescriptors.

### 3.1.4.55.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfFilterDescriptorStruct</b>	Contains a list of FilterDescriptors.

#### 3.1.4.55.3.1 ArrayOfFilterDescriptorStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of FilterDescriptors.

```
<xs:complexType name="ArrayOfFilterDescriptorStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="tns5:FilterDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>
```

**FilterDescriptorStruct:** A FilterDescriptor of a Method.

#### 3.1.4.55.4 Simple Types

None.

#### 3.1.4.55.5 Attributes

None.

#### 3.1.4.55.6 Groups

None.

#### 3.1.4.55.7 Attribute Groups

None.

#### 3.1.4.56 GetIdentifierById

This operation is used to retrieve the Identifier with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetIdentifierById** WSDL operation.

```
<wsdl:operation name="GetIdentifierById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.3</a> )	An Identifier with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.56.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetIdentifierById_InputMessage</b>	The request WSDL message for the <b>GetIdentifierById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage</b>	The response WSDL message for the <b>GetIdentifierById</b> WSDL operation.

#### 3.1.4.56.1.1

##### **BusinessDataCatalogSharedService\_GetIdentifierById\_InputMessage**

The request WSDL message for the **GetIdentifierById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById
```

The SOAP body contains the **GetIdentifierById** element.

#### 3.1.4.56.1.2

##### **BusinessDataCatalogSharedService\_GetIdentifierById\_OutputMessage**

The response WSDL message for the **GetIdentifierById** WSDL operation.

The SOAP body contains the **GetIdentifierByIdResponse** element.

### 3.1.4.56.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetIdentifierById</b>	The input data for the <b>GetIdentifierById</b> WSDL operation.
<b>GetIdentifierByIdResponse</b>	The result data for the <b>GetIdentifierById</b> WSDL operation.

#### 3.1.4.56.2.1 GetIdentifierById

The **GetIdentifierById** element specifies the input data for the **GetIdentifierById** WSDL operation.

```
<xs:element name="GetIdentifierById" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>
```

```

<xs:sequence>
  <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
  <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
  <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

**identifierId:** The MetadataObjectId of the Identifier.

**performErrorCheck:** The value of this element MUST be ignored if an **Identifier** with the specified **MetadataObjectId** exists. If an **Identifier** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetIdentifierByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.56.2.2 GetIdentifierByIdResponse

The **GetIdentifierByIdResponse** element specifies the result data for the **GetIdentifierById** WSDL operation.

```

<xs:element name="GetIdentifierByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifierByIdResult" nillable="true" type="tns5:IdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetIdentifierByIdResult:** The Identifier that was returned.

### 3.1.4.56.3 Complex Types

None.

### 3.1.4.56.4 Simple Types

None.

### 3.1.4.56.5 Attributes

None.

### 3.1.4.56.6 Groups

None.

### 3.1.4.56.7 Attribute Groups

None.

### 3.1.4.57 GetIdentifiersForEntity

This operation is used to retrieve the Identifiers contained by the specified Entity.

The following is the WSDL port type specification of the **GetIdentifiersForEntity** WSDL operation.

```
<wsdl:operation name="GetIdentifiersForEntity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the Entity is 0. <a href="#">&lt;62&gt;</a>
<b>MetadataObjectNotFoundExeptionState</b> (section <a href="#">2.2.4.43</a> )	An <b>Entity</b> with the specified <b>MetadataObjectId</b> does not exist. <a href="#">&lt;63&gt;</a>

### 3.1.4.57.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage</b>	The request WSDL message for the <b>GetIdentifiersForEntity</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage</b>	The response WSDL message for the <b>GetIdentifiersForEntity</b> WSDL operation.

#### 3.1.4.57.1.1

### **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_InputMessage**

The request WSDL message for the **GetIdentifiersForEntity** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity
```

The SOAP body contains the **GetIdentifiersForEntity** element.

#### 3.1.4.57.1.2

### **BusinessDataCatalogSharedService\_GetIdentifiersForEntity\_OutputMessage**

The response WSDL message for the **GetIdentifiersForEntity** WSDL operation.

The SOAP body contains the **GetIdentifiersForEntityResponse** element.

### 3.1.4.57.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetIdentifiersForEntity</b>	The input data for the <b>GetIdentifiersForEntity</b> WSDL operation.



Element	Description
<b>GetIdentifiersForEntityResponse</b>	The result data for the <b>GetIdentifiersForEntity</b> WSDL operation.

### 3.1.4.57.2.1 GetIdentifiersForEntity

The **GetIdentifiersForEntity** element specifies the input data for the **GetIdentifiersForEntity** WSDL operation.

```
<xs:element name="GetIdentifiersForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity for which the Identifiers are obtained.

**partitionId:** An empty GUID.

### 3.1.4.57.2.2 GetIdentifiersForEntityResponse

The **GetIdentifiersForEntityResponse** element specifies the result data for the **GetIdentifiersForEntity** WSDL operation.

```
<xs:element name="GetIdentifiersForEntityResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="tns5:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetIdentifiersForEntityResult:** The list of Identifiers.

### 3.1.4.57.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfIdentifierStruct</b>	Contains a list of Identifiers.

#### 3.1.4.57.3.1 ArrayOfIdentifierStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of Identifiers.

```

<xs:complexType name="ArrayOfIdentifierStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="tns5:IdentifierStruct"/>
  </xs:sequence>
</xs:complexType>

```

**IdentifierStruct:** An Identifier of an Entity.

#### 3.1.4.57.4 Simple Types

None.

#### 3.1.4.57.5 Attributes

None.

#### 3.1.4.57.6 Groups

None.

#### 3.1.4.57.7 Attribute Groups

None.

#### 3.1.4.58 GetImportProgress

This operation is used to retrieve the progress of an [ImportPackageWithProgress](#) operation, using the unique identifier provided by the client at the creation of the import operation.

The following is the WSDL port type specification of the **GetImportProgress** WSDL operation.

```

<wsdl:operation name="GetImportProgress" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgress"
message="tns6:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgressResponse"
message="tns6:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage** response message.

##### 3.1.4.58.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetImportProgress_InputMessage</b>	The request WSDL message for the <b>GetImportProgress</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetImportProgress_OutputMessage</b>	The response WSDL message for the <b>GetImportProgress</b> WSDL operation.

### 3.1.4.58.1.1

#### **BusinessDataCatalogSharedService\_GetImportProgress\_InputMessage**

The request WSDL message for the **GetImportProgress** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress
```

The SOAP body contains the **GetImportProgress** element.

### 3.1.4.58.1.2

#### **BusinessDataCatalogSharedService\_GetImportProgress\_OutputMessage**

The response WSDL message for the **GetImportProgress** WSDL operation.

The SOAP body contains the **GetImportProgressResponse** element.

### 3.1.4.58.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetImportProgress</b>	The input data for the <b>GetImportProgress</b> WSDL operation.
<b>GetImportProgressResponse</b>	The result data for the <b>GetImportProgress</b> WSDL operation.

### 3.1.4.58.2.1 GetImportProgress

The **GetImportProgress** element specifies the input data for the **GetImportProgress** WSDL operation.

```
<xs:element name="GetImportProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="jobId" type="ser:guid"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**jobId:** The identifier of the import operation for which the progress is to be retrieved.

**partitionId:** An empty GUID.

### 3.1.4.58.2.2 GetImportProgressResponse

The **GetImportProgressResponse** element specifies the result data for the **GetImportProgress** WSDL operation.

```
<xs:element name="GetImportProgressResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetImportProgressResult:** The fraction of the operation that is finished. The value MUST be between 0 and 1 inclusive. The value MUST be 0 if **jobId** is not recognized as a current import job.

### 3.1.4.58.3 Complex Types

None.

### 3.1.4.58.4 Simple Types

None.

### 3.1.4.58.5 Attributes

None.

### 3.1.4.58.6 Groups

None.

### 3.1.4.58.7 Attribute Groups

None.

### 3.1.4.59 GetLevelForTypeDescriptor

This operation retrieves the depth of the specified **TypeDescriptor** in the **TypeDescriptor** tree that contains the specified **TypeDescriptor**. The **TypeDescriptor** tree for a specified **TypeDescriptor** consists of the specified **TypeDescriptor** with depth 0. Any **TypeDescriptor** that is contained by a **TypeDescriptor** in the **TypeDescriptor** tree is also in the tree with depth 1 plus the depth of the containing **TypeDescriptor**.

The following is the WSDL port type specification of the **GetLevelForTypeDescriptor** WSDL operation.

```

<wsdl:operation name="GetLevelForTypeDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionSta
teFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the specified <b>TypeDescriptor</b> is 0. <a href="#">&lt;64&gt;</a>
<b>MetadataObjectNotFoundExeptionState</b> (section <a href="#">2.2.4.43</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified <b>TypeDescriptor</b> does not exist. <a href="#">&lt;65&gt;</a></li> <li>▪ The specified <b>TypeDescriptor</b> is not the root of the <b>TypeDescriptor</b> tree and the parent of the specified <b>TypeDescriptor</b> does not exist.</li> <li>▪ An ancestor of the specified <b>TypeDescriptor</b> is not the root of the <b>TypeDescriptor</b> tree that contains the specified <b>TypeDescriptor</b> and the parent of the ancestor does not exist.</li> </ul>

### 3.1.4.59.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>GetLevelForTypeDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetLevelForTypeDescriptor</b> WSDL operation.

#### 3.1.4.59.1.1

#### **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_InputMessage**

The request WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor
```

The SOAP body contains the **GetLevelForTypeDescriptor** element.

#### 3.1.4.59.1.2

#### **BusinessDataCatalogSharedService\_GetLevelForTypeDescriptor\_OutputMessage**

The response WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetLevelForTypeDescriptorResponse** element.

### 3.1.4.59.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLevelForTypeDescriptor</b>	The input data for the <b>GetLevelForTypeDescriptor</b> WSDL operation.
<b>GetLevelForTypeDescriptorResponse</b>	The result data for the <b>GetLevelForTypeDescriptor</b> WSDL operation.

#### 3.1.4.59.2.1 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** element specifies the input data for the **GetLevelForTypeDescriptor** WSDL operation.

```
<xs:element name="GetLevelForTypeDescriptor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**typeDescriptorStruct:** The TypeDescriptor.

#### 3.1.4.59.2.2 GetLevelForTypeDescriptorResponse

The **GetLevelForTypeDescriptorResponse** element specifies the result data for the **GetLevelForTypeDescriptor** WSDL operation.

```
<xs:element name="GetLevelForTypeDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLevelForTypeDescriptorResult:** The depth of the specified TypeDescriptor in the **TypeDescriptor** tree that contains the **TypeDescriptor**.

### 3.1.4.59.3 Complex Types

None.

### 3.1.4.59.4 Simple Types

None.

### 3.1.4.59.5 Attributes

None.

### 3.1.4.59.6 Groups

None.

### 3.1.4.59.7 Attribute Groups

None.

### 3.1.4.60 GetLobSystemAllAssembliesBytes

This operation is used to retrieve the Business Logic Modules associated with the specified LobSystem, if the systemType element of the specified **LobSystem** does not have the value "Custom". If the systemType element of the specified **LobSystem** has the value "Custom", the behavior of this operation is implementation-specific. [<66>](#)

The following is the WSDL port type specification of the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<wsdl:operation name="GetLobSystemAllAssembliesBytes"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
```



```

message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperatio
nExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExcepti
onStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage**

request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage**

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to read the specified <b>LobSystem</b> . <a href="#">&lt;67&gt;</a>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the specified <b>LobSystem</b> is 0.

### 3.1.4.60.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage</b>	The request WSDL message for the <b>GetLobSystemAllAssembliesBytes</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemAllAssembliesBytes</b> WSDL operation.

#### 3.1.4.60.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_InputMessage**

The request WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

The SOAP action value is:

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes

The SOAP body contains the **GetLobSystemAllAssembliesBytes** element.

### 3.1.4.60.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemAllAssembliesBytes\_OutputMessage**

The response WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

The SOAP body contains the **GetLobSystemAllAssembliesBytesResponse** element.

### 3.1.4.60.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemAllAssembliesBytes</b>	The input data for the <b>GetLobSystemAllAssembliesBytes</b> WSDL operation.
<b>GetLobSystemAllAssembliesBytesResponse</b>	The result data for the <b>GetLobSystemAllAssembliesBytes</b> WSDL operation.

#### 3.1.4.60.2.1 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** element specifies the input data for the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<xs:element name="GetLobSystemAllAssembliesBytes"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem.

#### 3.1.4.60.2.2 GetLobSystemAllAssembliesBytesResponse

The **GetLobSystemAllAssembliesBytesResponse** element specifies the result data for the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<xs:element name="GetLobSystemAllAssembliesBytesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
type="q9:ArrayOfbase64Binary"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetLobSystemAllAssembliesBytesResult:** The list of Business Logic Modules. If the specified LobSystem is not associated with any Business Logic Module, this element MUST NOT be present.

### 3.1.4.60.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfbase64Binary</b>	Contains an array of elements, each containing encoded data.

#### 3.1.4.60.3.1 ArrayOfbase64Binary

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfbase64Binary** complex type MUST be an array of elements, where each element contains data encoded with **base64 encoding**.

```

<xs:complexType name="ArrayOfbase64Binary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>

```

**base64Binary:** Data encoded with base64 encoding.

#### 3.1.4.60.4 Simple Types

None.

#### 3.1.4.60.5 Attributes

None.

#### 3.1.4.60.6 Groups

None.

#### 3.1.4.60.7 Attribute Groups

None.

### 3.1.4.61 GetLobSystemById

This operation retrieves the LobSystem with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetLobSystemById** WSDL operation.

```
<wsdl:operation name="GetLobSystemById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage** response message, unless any one of the conditions in the following table is met. If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId.</li> <li>An LobSystem with the specified MetadataObjectId does not exist and the value of the <b>performErrorCheck</b> element is "false". <a href="#">&lt;68&gt;</a></li> </ul>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An <b>LobSystem</b> with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.61.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemById_InputMessage</b>	The request WSDL message for the <b>GetLobSystemById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemById</b> WSDL operation.

#### 3.1.4.61.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemById\_InputMessage**

The request WSDL message for the **GetLobSystemById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById
```

The SOAP body contains the **GetLobSystemById** element.

#### 3.1.4.61.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemById\_OutputMessage**

The response WSDL message for the **GetLobSystemById** WSDL operation.

The SOAP body contains the **GetLobSystemByIdResponse** element.

### 3.1.4.61.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemById</b>	The input data for the <b>GetLobSystemById</b> WSDL operation.
<b>GetLobSystemByIdResponse</b>	The result data for the <b>GetLobSystemById</b> WSDL operation.

#### 3.1.4.61.2.1 GetLobSystemById

The **GetLobSystemById** element specifies the input data for the **GetLobSystemById** WSDL operation.

```
<xs:element name="GetLobSystemById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem that will be retrieved.

**performErrorCheck:** The value of this element MUST be ignored if an **LobSystem** with the specified **MetadataObjectId** exists.

**partitionId:** An empty GUID.

#### 3.1.4.61.2.2 GetLobSystemByIdResponse

The **GetLobSystemByIdResponse** element specifies the result data for the **GetLobSystemById** WSDL operation.

```
<xs:element name="GetLobSystemByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemByIdResult:** The LobSystem. The partition (1) of the **LobSystem** MUST be an empty GUID.

### 3.1.4.61.3 Complex Types

None.

### 3.1.4.61.4 Simple Types

None.

### 3.1.4.61.5 Attributes

None.

### 3.1.4.61.6 Groups

None.

### 3.1.4.61.7 Attribute Groups

None.

## 3.1.4.62 GetLobSystemByName

This operation is used to retrieve the specified LobSystem.

The following is the WSDL port type specification of the **GetLobSystemByName** WSDL operation.

```
<wsdl:operation name="GetLobSystemByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The security principal (2) in whose context the protocol client is operating is not authorized to read<69> the specified LobSystem.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The specified name length exceeds 255 characters.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>LobSystem</b> does not exist.

### 3.1.4.62.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage</b>	The request WSDL message for the <b>GetLobSystemByName</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemByName</b> WSDL operation.

#### 3.1.4.62.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemByName\_InputMessage**

The request WSDL message for the **GetLobSystemByName** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName

```



The SOAP body contains the **GetLobSystemByName** element.

### 3.1.4.62.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemByName\_OutputMessage**

The response WSDL message for the **GetLobSystemByName** WSDL operation.

The SOAP body contains the **GetLobSystemByNameResponse** element.

### 3.1.4.62.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemByName</b>	The input data for the <b>GetLobSystemByName</b> WSDL operation.
<b>GetLobSystemByNameResponse</b>	The result data for the <b>GetLobSystemByName</b> WSDL operation.

#### 3.1.4.62.2.1 GetLobSystemByName

The **GetLobSystemByName** element specifies the input data for the **GetLobSystemByName** WSDL operation.

```
<xs:element name="GetLobSystemByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**name:** The name of the LobSystem.

**partitionId:** An empty GUID.

#### 3.1.4.62.2.2 GetLobSystemByNameResponse

The **GetLobSystemByNameResponse** element specifies the result data for the **GetLobSystemByName** WSDL operation.

```
<xs:element name="GetLobSystemByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemByNameResult:** The LobSystem with the specified name.

### 3.1.4.62.3 Complex Types

None.

### 3.1.4.62.4 Simple Types

None.

### 3.1.4.62.5 Attributes

None.

### 3.1.4.62.6 Groups

None.

### 3.1.4.62.7 Attribute Groups

None.

### 3.1.4.63 GetLobSystemDataByLobSystem

This operation is used to retrieve Business Logic Modules [<70>](#) associated with the specified LobSystem.

The following is the WSDL port type specification of the **GetLobSystemDataByLobSystem** WSDL operation.

```
<wsdl:operation name="GetLobSystemDataByLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRange
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The security principal (2) in whose context the protocol client is operating is not authorized to read the specified LobSystem. <a href="#">&lt;71&gt;</a>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the specified <b>LobSystem</b> is 0. <a href="#">&lt;72&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>LobSystem</b> does not exist.

### 3.1.4.63.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage</b>	The request WSDL message for the <b>GetLobSystemDataByLobSystem</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemDataByLobSystem</b> WSDL operation.

### 3.1.4.63.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_InputMessage**

The request WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem
```

The SOAP body contains the **GetLobSystemDataByLobSystem** element.

### 3.1.4.63.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemDataByLobSystem\_OutputMessage**

The response WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

The SOAP body contains the **GetLobSystemDataByLobSystemResponse** element.

### 3.1.4.63.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemDataByLobSystem</b>	The input data for the <b>GetLobSystemDataByLobSystem</b> WSDL operation.
<b>GetLobSystemDataByLobSystemResponse</b>	The result data for the <b>GetLobSystemDataByLobSystem</b> WSDL operation.

#### 3.1.4.63.2.1 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** element specifies the input data for the **GetLobSystemDataByLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemDataByLobSystem" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"  
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**lobSystemStruct:** The LobSystem.

#### 3.1.4.63.2.2 GetLobSystemDataByLobSystemResponse

The **GetLobSystemDataByLobSystemResponse** element specifies the result data for the **GetLobSystemDataByLobSystem** WSDL operation.

```

<xs:element name="GetLobSystemDataByLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLobSystemDataByLobSystemResult:** The information about the Business Logic Modules [<73>](#) associated with the specified LobSystem.

### 3.1.4.63.3 Complex Types

None.

### 3.1.4.63.4 Simple Types

None.

### 3.1.4.63.5 Attributes

None.

### 3.1.4.63.6 Groups

None.

### 3.1.4.63.7 Attribute Groups

None.

### 3.1.4.64 GetLobSystemInstanceById

This operation is used to retrieve the LobSystemInstance with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetLobSystemInstanceById** WSDL operation.

```

<wsdl:operation name="GetLobSystemInstanceById"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId.</li> <li>▪ An LobSystemInstance with the specified MetadataObjectId does not exist and the value of the <b>performErrorCheck</b> element is "false". <a href="#">&lt;74&gt;</a></li> </ul>
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified <b>MetadataObjectId</b> is 0.

Error complex type	Condition
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	An <b>LobSystemInstance</b> with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.64.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemInstanceById_Input Message</b>	The request WSDL message for the <b>GetLobSystemInstanceById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemInstanceById_Output Message</b>	The response WSDL message for the <b>GetLobSystemInstanceById</b> WSDL operation.

#### 3.1.4.64.1.1

##### **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_InputMessage**

The request WSDL message for the **GetLobSystemInstanceById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById
```

The SOAP body contains the **GetLobSystemInstanceById** element.

#### 3.1.4.64.1.2

##### **BusinessDataCatalogSharedService\_GetLobSystemInstanceById\_OutputMessage**

The response WSDL message for the **GetLobSystemInstanceById** WSDL operation.

The SOAP body contains the **GetLobSystemInstanceByIdResponse** element.

### 3.1.4.64.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemInstanceById</b>	The input data for the <b>GetLobSystemInstanceById</b> WSDL operation.
<b>GetLobSystemInstanceByIdResponse</b>	The result data for the <b>GetLobSystemInstanceById</b> WSDL operation.

### 3.1.4.64.2.1 GetLobSystemInstanceById

The **GetLobSystemInstanceById** element specifies the input data for the **GetLobSystemInstanceById** WSDL operation.

```
<xs:element name="GetLobSystemInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemInstanceId:** The MetadataObjectId of the LobSystemInstance.

**performErrorCheck:** The value of this element MUST be ignored if a **LobSystemInstance** with the specified **MetadataObjectId** exists.

**partitionId:** An empty GUID.

### 3.1.4.64.2.2 GetLobSystemInstanceByIdResponse

The **GetLobSystemInstanceByIdResponse** element specifies the result data for the **GetLobSystemInstanceById** WSDL operation.

```
<xs:element name="GetLobSystemInstanceByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="tns5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLobSystemInstanceByIdResult:** The LobSystemInstance.

### 3.1.4.64.3 Complex Types

None.

### 3.1.4.64.4 Simple Types

None.

### 3.1.4.64.5 Attributes

None.

### 3.1.4.64.6 Groups

None.



### 3.1.4.64.7 Attribute Groups

None.

### 3.1.4.65 GetLobSystemInstancesForLobSystem

This operation is used to retrieve the list of LobSystemInstances of the specified LobSystem. Only the **LobSystemInstances** that the [security principal \(2\)](#) in whose context the protocol client is operating is authorized to read<75> are returned.

The following is the WSDL port type specification of the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<wsdl:operation name="GetLobSystemInstancesForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutO
fRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcException
StateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOpera
tionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

</wsdl:operation>

The protocol client sends a

**BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0. <a href="#">&lt;76&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist. <a href="#">&lt;77&gt;</a>

### 3.1.4.65.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage</b>	The request WSDL message for the <b>GetLobSystemInstancesForLobSystem</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemInstancesForLobSystem</b> WSDL operation.

#### 3.1.4.65.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_InputMessage**

The request WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstancesForLobSystem`

The SOAP body contains the **GetLobSystemInstancesForLobSystem** element.

### 3.1.4.65.1.2

#### BusinessDataCatalogSharedService\_GetLobSystemInstancesForLobSystem\_OutputMessage

The response WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

The SOAP body contains the **GetLobSystemInstancesForLobSystemResponse** element.

### 3.1.4.65.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemInstancesForLobSystem</b>	The input data for the <b>GetLobSystemInstancesForLobSystem</b> WSDL operation.
<b>GetLobSystemInstancesForLobSystemResponse</b>	The result data for the <b>GetLobSystemInstancesForLobSystem</b> WSDL operation.

#### 3.1.4.65.2.1 GetLobSystemInstancesForLobSystem

The **GetLobSystemInstancesForLobSystem** element specifies the input data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystem"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemId:** The MetadataObjectId of the LobSystem.

**partitionId:** An empty GUID.

#### 3.1.4.65.2.2 GetLobSystemInstancesForLobSystemResponse

The **GetLobSystemInstancesForLobSystemResponse** element specifies the result data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystemResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="tns5:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**GetLobSystemInstancesForLobSystemResult:** The list of LobSystemInstances of the specified LobSystem.

### 3.1.4.65.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfLobSystemInstanceStruct</b>	Contains a list of LobSystemInstances.

#### 3.1.4.65.3.1 ArrayOfLobSystemInstanceStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type is a list of complex types, each of which represents an LobSystemInstance.

```
<xs:complexType name="ArrayOfLobSystemInstanceStruct"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="tns5:LobSystemInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
```

**LobSystemInstanceStruct:** A complex type that represents an **LobSystemInstance**.

#### 3.1.4.65.4 Simple Types

None.

#### 3.1.4.65.5 Attributes

None.

#### 3.1.4.65.6 Groups

None.

#### 3.1.4.65.7 Attribute Groups

None.

#### 3.1.4.66 GetLobSystemProxyAssemblyBytesByLobSystemId

This operation is used to retrieve the implementation-specific Business Logic Module [<78>](#) associated with the specified LobSystem.

The following is the WSDL port type specification of the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to read<79> the specified LobSystem.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the specified LobSystem is 0.
<b>InvalidMetadataPropertyExceptionState</b> (section <a href="#">2.2.4.38</a> )	The specified LobSystem has an invalid value for the Property named "SystemUtilityTypeName". The validity of this Property is specified in section <a href="#">3.1.4.82.2.2</a> .
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified LobSystem does not exist.

### 3.1.4.66.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage</b>	The request WSDL message for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId</b> WSDL operation.

#### 3.1.4.66.1.1

### **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_InputMessage**

The request WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId`

The SOAP body contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

### 3.1.4.66.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemProxyAssemblyBytesByLobSystemId\_OutputMessage**

The response WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

The SOAP body contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

### 3.1.4.66.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemProxyAssemblyBytesByLobSystemId</b>	The input data for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId</b> WSDL operation.
<b>GetLobSystemProxyAssemblyBytesByLobSystemIdResponse</b>	The result data for the <b>GetLobSystemProxyAssemblyBytesByLobSystemId</b> WSDL operation.

#### 3.1.4.66.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** element specifies the input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem to retrieve the implementation-specific Business Logic Module from.

#### 3.1.4.66.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element specifies the result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
        nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**GetLobSystemProxyAssemblyBytesByLobSystemIdResult:** The bytes of the implementation-specific Business Logic Module [<80>](#) associated with the specified LobSystem. If more than one Business Logic Module exists for the specified **LobSystem**, this element MUST contain the bytes of the first defined Business Logic Module as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23. If no Business Logic Module is found for the specified **LobSystem**, this element MUST be NULL.

### 3.1.4.66.3 Complex Types

None.

### 3.1.4.66.4 Simple Types

None.

### 3.1.4.66.5 Attributes

None.

### 3.1.4.66.6 Groups

None.

### 3.1.4.66.7 Attribute Groups

None.

### 3.1.4.67 GetLobSystemsLikeName

This operation is used to retrieve the LobSystems that match the specified wildcard pattern that the [security principal \(2\)](#) in whose context the protocol client is operating is authorized to read. [<81>](#)

An **LobSystem** matches the wildcard pattern specified by **searchLikeName** if and only if **searchLikeName** matches the name of the **LobSystem**, or the localized name of the **LobSystem** with LCID 0, or the localized name of the **LobSystem** with the LCID specified by **callerCultureLcid**.

The following is the WSDL port type specification of the **GetLobSystemsLikeName** WSDL operation.

```
<wsdl:operation name="GetLobSystemsLikeName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"/>
```



```

message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The length of the specified wildcard pattern exceeds 255 characters.</li> <li>▪ The format of the specified wildcard pattern is invalid.</li> </ul>

### 3.1.4.67.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage</b>	The request WSDL message for the <b>GetLobSystemsLikeName</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemsLikeName</b> WSDL operation.

### 3.1.4.67.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_InputMessage**

The request WSDL message for the **GetLobSystemsLikeName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName
```

The SOAP body contains the **GetLobSystemsLikeName** element.

### 3.1.4.67.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemsLikeName\_OutputMessage**

The response WSDL message for the **GetLobSystemsLikeName** WSDL operation.

The SOAP body contains the **GetLobSystemsLikeNameResponse** element.

### 3.1.4.67.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemsLikeName</b>	The input data for the <b>GetLobSystemsLikeName</b> WSDL operation.
<b>GetLobSystemsLikeNameResponse</b>	The result data for the <b>GetLobSystemsLikeName</b> WSDL operation.

#### 3.1.4.67.2.1 **GetLobSystemsLikeName**

The **GetLobSystemsLikeName** element specifies the input data for the **GetLobSystemsLikeName** WSDL operation.

```
<xs:element name="GetLobSystemsLikeName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**searchLikeName:** The wildcard pattern to be used to retrieve the LobSystems whose name or localized name matches the wildcard pattern. Following is the ABNF for the **searchLikeName**:

```

searchLikeName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A

```

The protocol server MUST match the name or localized name of the **LobSystems** with the value of **searchLikeName** when the EscapeBackSlash, EscapeWildcard and Wildcard rules are changed as follows:

```

EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)

```

**callerCultureLcid:** The LCID representing the locale to be used when retrieving the **LobSystems**.

**partitionId:** An empty GUID.

### 3.1.4.67.2.2 GetLobSystemsLikeNameResponse

The **GetLobSystemsLikeNameResponse** element specifies the result data for the **GetLobSystemsLikeName** WSDL operation.

```

<xs:element name="GetLobSystemsLikeNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="tns5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLobSystemsLikeNameResult:** The list of LobSystems.

### 3.1.4.67.3 Complex Types

None.

### 3.1.4.67.4 Simple Types

None.

### 3.1.4.67.5 Attributes

None.

### 3.1.4.67.6 Groups

None.

### 3.1.4.67.7 Attribute Groups

None.

### 3.1.4.68 GetLobSystemsReferencedByEntitiesAssociatedWithModel

This operation is used to retrieve the LobSystems that the [security principal \(2\)](#) in whose context the protocol client is operating is authorized to read [<82>](#) that are referenced by Entities associated with the specified Model.

The following is the WSDL port type specification of the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```
<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_InvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_MetadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0. <a href="#">&lt;83&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Model does not exist. <a href="#">&lt;84&gt;</a>

### 3.1.4.68.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage</b>	The request WSDL message for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage</b>	The response WSDL message for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b> WSDL operation.

### 3.1.4.68.1.1

#### **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_InputMessage**

The request WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel
```

The SOAP body contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

### 3.1.4.68.1.2

#### **BusinessDataCatalogSharedService\_GetLobSystemsReferencedByEntitiesAssociatedWithModel\_OutputMessage**

The response WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

The SOAP body contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

### 3.1.4.68.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b>	The input data for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b> WSDL operation.
<b>GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse</b>	The result data for the <b>GetLobSystemsReferencedByEntitiesAssociatedWithModel</b> WSDL operation.

#### 3.1.4.68.2.1 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element specifies the input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants"
        minOccurs="0" name="queryMode"
        type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**modelId:** The MetadataObjectId for the specified Model.

**queryMode:** The mode which specifies the LobSystems to be retrieved. The value MUST be an **LobSystemConstants.LobSystemsInModelQuery** (section [3.1.4.68.4.1](#)).

**partitionId:** An empty GUID.

### 3.1.4.68.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element specifies the result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```

<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
type="tns5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLobSystemsReferencedByEntitiesAssociatedWithModelResult:** The list of LobSystems.

### 3.1.4.68.3 Complex Types

None.

### 3.1.4.68.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>LobSystemConstants.LobSystemsInModelQuery</b>	Specifies the mode in which to retrieve LobSystems.

#### 3.1.4.68.4.1 LobSystemConstants.LobSystemsInModelQuery

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode which determines the LobSystems to be retrieved.

```

<xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllLobSystemsInModel"/>
    <xs:enumeration value="OwnedLobSystemsInModel"/>
    <xs:enumeration value="SharedLobSystemsInModel"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **LobSystemConstants.LobSystemsInModelQuery** simple type.

Value	Meaning
AllLobSystemsInModel	All <b>LobSystems</b> referenced by the specified Model.
OwnedLobSystemsInModel	<b>LobSystems</b> referenced only by the specified <b>Model</b> . The returned <b>LobSystems</b> MUST not include <b>LobSystems</b> that are referenced by other <b>Models</b> .
SharedLobSystemsInModel	<b>LobSystems</b> referenced by the specified <b>Model</b> and by other <b>Models</b> . The returned <b>LobSystems</b> MUST not include <b>LobSystems</b> that are referenced only by the specified <b>Model</b> .

### 3.1.4.68.5 Attributes

None.

### 3.1.4.68.6 Groups

None.

### 3.1.4.68.7 Attribute Groups

None.

### 3.1.4.69 GetMethodById

This operation is used to retrieve the Method with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetMethodById** WSDL operation.

```

<wsdl:operation name="GetMethodById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodById"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"

```



```

message="tns6:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A Method with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.69.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodById_InputMessage</b>	The request WSDL message for the

Message	Description
	<b>GetMethodById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodById_OutputMessage</b>	The response WSDL message for the <b>GetMethodById</b> WSDL operation.

### 3.1.4.69.1.1 BusinessDataCatalogSharedService\_GetMethodById\_InputMessage

The request WSDL message for the **GetMethodById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById
```

The SOAP body contains the **GetMethodById** element.

### 3.1.4.69.1.2 BusinessDataCatalogSharedService\_GetMethodById\_OutputMessage

The response WSDL message for the **GetMethodById** WSDL operation.

The SOAP body contains the **GetMethodByIdResponse** element.

### 3.1.4.69.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetMethodById</b>	The input data for the <b>GetMethodById</b> WSDL operation.
<b>GetMethodByIdResponse</b>	The result data for the <b>GetMethodById</b> WSDL operation.

#### 3.1.4.69.2.1 GetMethodById

The **GetMethodById** element specifies the input data for the **GetMethodById** WSDL operation.

```
<xs:element name="GetMethodById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method.

**performErrorCheck:** The value of this element MUST be ignored if a **Method** with the specified **MetadataObjectId** exists. If **Method** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.69.2.2 GetMethodByIdResponse

The **GetMethodByIdResponse** element specifies the result data for the **GetMethodById** WSDL operation.

```
<xs:element name="GetMethodByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="tns5:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodByIdResult:** The Method.

### 3.1.4.69.3 Complex Types

None.

### 3.1.4.69.4 Simple Types

None.

### 3.1.4.69.5 Attributes

None.

### 3.1.4.69.6 Groups

None.

### 3.1.4.69.7 Attribute Groups

None.

### 3.1.4.70 GetMethodInstanceById

This operation is used to retrieve the MethodInstance with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetMethodInstanceById** WSDL operation.

```
<wsdl:operation name="GetMethodInstanceById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A MethodInstance with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.70.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage</b>	The request WSDL message for the <b>GetMethodInstanceById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstanceById</b> WSDL operation.

#### 3.1.4.70.1.1

##### **BusinessDataCatalogSharedService\_GetMethodInstanceById\_InputMessage**

The request WSDL message for the **GetMethodInstanceById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById
```

The SOAP body contains the **GetMethodInstanceById** element.

#### 3.1.4.70.1.2

##### **BusinessDataCatalogSharedService\_GetMethodInstanceById\_OutputMessage**

The response WSDL message for the **GetMethodInstanceById** WSDL operation.

The SOAP body contains the **GetMethodInstanceByIdResponse** element.

### 3.1.4.70.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetMethodInstanceById</b>	The input data for the <b>GetMethodInstanceById</b> WSDL operation.
<b>GetMethodInstanceByIdResponse</b>	The result data for the <b>GetMethodInstanceById</b> WSDL operation.

#### 3.1.4.70.2.1 GetMethodInstanceById

The **GetMethodInstanceById** element specifies the input data for the **GetMethodInstanceById** WSDL operation.

```

<xs:element name="GetMethodInstanceById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**methodInstanceId:** The MetadataObjectId for the MethodInstance.

**performErrorCheck:** The value of this element MUST be ignored if a **MethodInstance** with the specified **MetadataObjectId** exists. If a **MethodInstance** with the specified **MetadataObjectId** does not exist and value of this element is false, the protocol server MUST set the value of the **GetMethodInstanceByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.70.2 GetMethodInstanceByIdResponse

The **GetMethodInstanceByIdResponse** element specifies the result data for the **GetMethodInstanceById** WSDL operation.

```

<xs:element name="GetMethodInstanceByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="tns5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetMethodInstanceByIdResult:** The MethodInstance.

### 3.1.4.70.3 Complex Types

None.

### 3.1.4.70.4 Simple Types

None.

### 3.1.4.70.5 Attributes

None.

### 3.1.4.70.6 Groups

None.

### 3.1.4.70.7 Attribute Groups

None.

### 3.1.4.71 GetMethodInstancesForDataClass

This operation is used to retrieve the MethodInstances contained by the Methods contained by the specified DataClass.

The following is the WSDL port type specification of the **GetMethodInstancesForDataClass** WSDL operation.

```
<wsdl:operation name="GetMethodInstancesForDataClass"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassResponse"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section <a href="#">2.2.4.43</a> )	The specified DataClass does not exist. <a href="#">&lt;85&gt;</a>

### 3.1.4.71.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage</b>	The request WSDL message for the <b>GetMethodInstancesForDataClass</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstancesForDataClass</b> WSDL operation.

#### 3.1.4.71.1.1

### **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_InputMessage**

The request WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass
```

The SOAP body contains the **GetMethodInstancesForDataClass** element.

#### 3.1.4.71.1.2

### **BusinessDataCatalogSharedService\_GetMethodInstancesForDataClass\_OutputMessage**

The response WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.



The SOAP body contains the **GetMethodInstancesForDataClassResponse** element.

### 3.1.4.71.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetMethodInstancesForDataClass</b>	The input data for the <b>GetMethodInstancesForDataClass</b> WSDL operation.
<b>GetMethodInstancesForDataClassResponse</b>	The result data for the <b>GetMethodInstancesForDataClass</b> WSDL operation.

#### 3.1.4.71.2.1 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** element specifies the input data for the **GetMethodInstancesForDataClass** WSDL operation.

```
<xs:element name="GetMethodInstancesForDataClass"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId for the DataClass.

**partitionId:** An empty GUID.

#### 3.1.4.71.2.2 GetMethodInstancesForDataClassResponse

The **GetMethodInstancesForDataClassResponse** element specifies the result data for the **GetMethodInstancesForDataClass** WSDL operation.

```
<xs:element name="GetMethodInstancesForDataClassResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetMethodInstancesForDataClassResult" nillable="true"
        type="tns5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodInstancesForDataClassResult:** The list of MethodInstances.

### 3.1.4.71.3 Complex Types

None.

### 3.1.4.71.4 Simple Types

None.

### 3.1.4.71.5 Attributes

None.

### 3.1.4.71.6 Groups

None.

### 3.1.4.71.7 Attribute Groups

None.

### 3.1.4.72 GetMethodInstancesForMethod

This operation is used to retrieve the MethodInstances contained by the specified Method.

The following is the WSDL port type specification of the **GetMethodInstancesForMethod** WSDL operation.

```
<wsdl:operation name="GetMethodInstancesForMethod"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRange
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService_GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService_GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Method does not exist. <a href="#">&lt;86&gt;</a>

### 3.1.4.72.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage</b>	The request WSDL message for the <b>GetMethodInstancesForMethod</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage</b>	The response WSDL message for the <b>GetMethodInstancesForMethod</b> WSDL operation.

#### 3.1.4.72.1.1

### **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_InputMessage**

The request WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod
```

The SOAP body contains the **GetMethodInstancesForMethod** element.

### 3.1.4.72.1.2

#### **BusinessDataCatalogSharedService\_GetMethodInstancesForMethod\_OutputMessage**

The response WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

The SOAP body contains the **GetMethodInstancesForMethodResponse** element.

### 3.1.4.72.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetMethodInstancesForMethod</b>	The input data for the <b>GetMethodInstancesForMethod</b> WSDL operation.
<b>GetMethodInstancesForMethodResponse</b>	The result data for the <b>GetMethodInstancesForMethod</b> WSDL operation.

#### 3.1.4.72.2.1 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** element specifies the input data for the **GetMethodInstancesForMethod** WSDL operation.

```
<xs:element name="GetMethodInstancesForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>  
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"  
minOccurs="0" name="partitionId" type="ser:guid"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**methodId:** The MetadataObjectId for the Method.

**partitionId:** An empty GUID.

#### 3.1.4.72.2.2 GetMethodInstancesForMethodResponse

The **GetMethodInstancesForMethodResponse** element specifies the result data for the **GetMethodInstancesForMethod** WSDL operation.

```
<xs:element name="GetMethodInstancesForMethodResponse"  
xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForMethodResult" nillable="true"
type="tns5:ArrayOfMethodInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetMethodInstancesForMethodResult:** The list of MethodInstances.

### 3.1.4.72.3 Complex Types

None.

### 3.1.4.72.4 Simple Types

None.

### 3.1.4.72.5 Attributes

None.

### 3.1.4.72.6 Groups

None.

### 3.1.4.72.7 Attribute Groups

None.

### 3.1.4.73 GetMethodsForDataClass

This operation is used to retrieve the Methods contained by the specified DataClass.

The following is the WSDL port type specification of the **GetMethodsForDataClass** WSDL operation.

```

<wsdl:operation name="GetMethodsForDataClass" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClass"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"

```

```

message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0. <a href="#">&lt;87&gt;</a>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified DataClass does not exist. <a href="#">&lt;88&gt;</a>

### 3.1.4.73.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage</b>	The request WSDL message for the <b>GetMethodsForDataClass</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage</b>	The response WSDL

Message	Description
<b>ssage</b>	message for the <b>GetMethodsForDataClass</b> WSDL operation.

### 3.1.4.73.1.1

#### **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_InputMessage**

The request WSDL message for the **GetMethodsForDataClass** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass
```

The SOAP body contains the **GetMethodsForDataClass** element.

### 3.1.4.73.1.2

#### **BusinessDataCatalogSharedService\_GetMethodsForDataClass\_OutputMessage**

The response WSDL message for the **GetMethodsForDataClass** WSDL operation.

The SOAP body contains the **GetMethodsForDataClassResponse** element.

### 3.1.4.73.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetMethodsForDataClass</b>	The input data for the <b>GetMethodsForDataClass</b> WSDL operation.
<b>GetMethodsForDataClassResponse</b>	The result data for the <b>GetMethodsForDataClass</b> WSDL operation.

#### 3.1.4.73.2.1 GetMethodsForDataClass

The **GetMethodsForDataClass** element specifies the input data for the **GetMethodsForDataClass** WSDL operation.

```
<xs:element name="GetMethodsForDataClass" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**dataClassId:** The MetadataObjectId of the DataClass.

**partitionId:** An empty GUID.

### 3.1.4.73.2.2 GetMethodsForDataClassResponse

The **GetMethodsForDataClassResponse** element specifies the result data for the **GetMethodsForDataClass** WSDL operation.

```
<xs:element name="GetMethodsForDataClassResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetMethodsForDataClassResult" nillable="true" type="tns5:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetMethodsForDataClassResult:** The list of Methods.

### 3.1.4.73.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfMethodStruct</b>	Contains a list of Methods.

#### 3.1.4.73.3.1 ArrayOfMethodStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of Methods.

```
<xs:complexType name="ArrayOfMethodStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
      type="tns5:MethodStruct"/>
  </xs:sequence>
</xs:complexType>
```

**MethodStruct:** The element contains information about a Method.

#### 3.1.4.73.4 Simple Types

None.

#### 3.1.4.73.5 Attributes

None.

#### 3.1.4.73.6 Groups

None.



### 3.1.4.73.7 Attribute Groups

None.

### 3.1.4.74 GetModelById

This operation is used to retrieve the Model with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetModelById** WSDL operation.

```
<wsdl:operation name="GetModelById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A Model with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.74.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetModelById_InputMessage</b>	The request WSDL message for the <b>GetModelById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetModelById_OutputMessage</b>	The response WSDL message for the <b>GetModelById</b> WSDL operation.

#### 3.1.4.74.1.1 BusinessDataCatalogSharedService\_GetModelById\_InputMessage

The request WSDL message for the **GetModelById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById
```

The SOAP body contains the **GetModelById** element.

#### 3.1.4.74.1.2 BusinessDataCatalogSharedService\_GetModelById\_OutputMessage

The response WSDL message for the **GetModelById** WSDL operation.

The SOAP body contains the **GetModelByIdResponse** element.

### 3.1.4.74.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetModelById</b>	The input data for the <b>GetModelById</b> WSDL operation.
<b>GetModelByIdResponse</b>	The result data for the <b>GetModelById</b> WSDL operation.

### 3.1.4.74.2.1 GetModelById

The **GetModelById** element specifies the input data for the **GetModelById** WSDL operation.

```
<xs:element name="GetModelById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelId:** The MetadataObjectId for the Model.

**performErrorCheck:** The value of this element MUST be ignored if a **Model** with the specified **MetadataObjectId** exists. If a **Model** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.74.2.2 GetModelByIdResponse

The **GetModelByIdResponse** element specifies the result data for the **GetModelById** WSDL operation.

```
<xs:element name="GetModelByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelByIdResult:** The Model.

### 3.1.4.74.3 Complex Types

None.

### 3.1.4.74.4 Simple Types

None.

### 3.1.4.74.5 Attributes

None.

### 3.1.4.74.6 Groups

None.

### 3.1.4.74.7 Attribute Groups

None.

### 3.1.4.75 GetModelByName

This operation is used to retrieve the specified Model.

The following is the WSDL port type specification of the **GetModelByName** WSDL operation.

```
<wsdl:operation name="GetModelByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameResponse"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The length of the specified name exceeds 255 characters.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Model does not exist.

### 3.1.4.75.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetModelByName_InputMessage</b>	The request WSDL message for the <b>GetModelByName</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetModelByName_OutputMessage</b>	The response WSDL message for the <b>GetModelByName</b> WSDL operation.

#### 3.1.4.75.1.1

##### **BusinessDataCatalogSharedService\_GetModelByName\_InputMessage**

The request WSDL message for the **GetModelByName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName
```

The SOAP body contains the **GetModelByName** element.

#### 3.1.4.75.1.2

##### **BusinessDataCatalogSharedService\_GetModelByName\_OutputMessage**

The response WSDL message for the **GetModelByName** WSDL operation.

The SOAP body contains the **GetModelByNameResponse** element.

### 3.1.4.75.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetModelByName</b>	The input data for the <b>GetModelByName</b> WSDL operation.
<b>GetModelByNameResponse</b>	The result data for the <b>GetModelByName</b> WSDL operation.

#### 3.1.4.75.2.1 GetModelByName

The **GetModelByName** element specifies the input data for the **GetModelByName** WSDL operation.

```
<xs:element name="GetModelByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**name:** The name of the Model.

**partitionId:** The empty GUID.

#### 3.1.4.75.2.2 GetModelByNameResponse

The **GetModelByNameResponse** element specifies the result data for the **GetModelByName** WSDL operation.

```
<xs:element name="GetModelByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelByNameResult:** The Model.

### 3.1.4.75.3 Complex Types

None.

### 3.1.4.75.4 Simple Types

None.

### 3.1.4.75.5 Attributes

None.

### 3.1.4.75.6 Groups

None.

### 3.1.4.75.7 Attribute Groups

None.

### 3.1.4.76 GetModelsByEntityId

This operation is used to retrieve the Models that reference the specified Entity.

The following is the WSDL port type specification of the **GetModelsByEntityId** WSDL operation.

```
<wsdl:operation name="GetModelsByEntityId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExpectionState</b> (section 2.2.4.43)	The specified Entity does not exist. <89>

### 3.1.4.76.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage</b>	The request WSDL message for the <b>GetModelsByEntityId</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage</b>	The response WSDL message for the <b>GetModelsByEntityId</b> WSDL operation.

#### 3.1.4.76.1.1

### **BusinessDataCatalogSharedService\_GetModelsByEntityId\_InputMessage**

The request WSDL message for the **GetModelsByEntityId** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
ModelsByEntityId

```

The SOAP body contains the **GetModelsByEntityId** element.



### 3.1.4.76.1.2

#### BusinessDataCatalogSharedService\_GetModelsByEntityId\_OutputMessage

The response WSDL message for the **GetModelsByEntityId** WSDL operation.

The SOAP body contains the **GetModelsByEntityIdResponse** element.

### 3.1.4.76.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetModelsByEntityId</b>	The input data for the <b>GetModelsByEntityId</b> WSDL operation.
<b>GetModelsByEntityIdResponse</b>	The result data for the <b>GetModelsByEntityId</b> WSDL operation.

#### 3.1.4.76.2.1 GetModelsByEntityId

The **GetModelsByEntityId** element specifies the input data for the **GetModelsByEntityId** WSDL operation.

```
<xs:element name="GetModelsByEntityId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityId:** The MetadataObjectId of the Entity.

**partitionId:** An empty GUID.

#### 3.1.4.76.2.2 GetModelsByEntityIdResponse

The **GetModelsByEntityIdResponse** element specifies the result data for the **GetModelsByEntityId** WSDL operation.

```
<xs:element name="GetModelsByEntityIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="tns5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelsByEntityIdResult:** The list of Models.

### 3.1.4.76.3 Complex Types

None.

### 3.1.4.76.4 Simple Types

None.

### 3.1.4.76.5 Attributes

None.

### 3.1.4.76.6 Groups

None.

### 3.1.4.76.7 Attribute Groups

None.

### 3.1.4.77 GetModelsByName

This operation is used to retrieve the Models that match the specified wildcard pattern.

A **Model** matches the wildcard pattern specified by **wildcardedName** if and only if **wildcardedName** matches the name of the **Model**, or the localized name of the **Model** with LCID 0, or the localized name of the **Model** with the LCID specified by **callerCultureLcid**.

The following is the WSDL port type specification of the **GetModelsByName** WSDL operation.

```
<wsdl:operation name="GetModelsByName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetModelsByName"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetModelsByNameResponse"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMe
    ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Fau
    ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFau
    lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The length of the specified wildcard pattern exceeds 255 characters.</li> <li>▪ The format of the specified wildcard pattern is invalid.</li> </ul>

### 3.1.4.77.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetModelsByName_InputMessage</b>	The request WSDL message for the <b>GetModelsByName</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetModelsByName_OutputMessage</b>	The response WSDL message for the <b>GetModelsByName</b> WSDL operation.

#### 3.1.4.77.1.1

### **BusinessDataCatalogSharedService\_GetModelsByName\_InputMessage**

The request WSDL message for the **GetModelsByName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName
```

The SOAP body contains the **GetModelsByName** element.

### 3.1.4.77.1.2

#### **BusinessDataCatalogSharedService\_GetModelsByName\_OutputMessage**

The response WSDL message for the **GetModelsByName** WSDL operation.

The SOAP body contains the **GetModelsByNameResponse** element.

### 3.1.4.77.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetModelsByName</b>	The input data for the <b>GetModelsByName</b> WSDL operation.
<b>GetModelsByNameResponse</b>	The result data for the <b>GetModelsByName</b> WSDL operation.

#### 3.1.4.77.2.1 GetModelsByName

The **GetModelsByName** element specifies the input data for the **GetModelsByName** WSDL operation.

```
<xs:element name="GetModelsByName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**wildcardedName:** The wildcard pattern to be used to retrieve the Models whose name or localized name matches the wildcard pattern. Following is the ABNF for the **wildcardedName**:

```
wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the name or localized name of the **Models** with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

**callerCultureLcid:** The LCID representing the locale to be used when retrieving the Models.

**partitionId:** An empty GUID.

### 3.1.4.77.2 GetModelsByNameResponse

The **GetModelsByNameResponse** element specifies the result data for the **GetModelsByName** WSDL operation.

```
<xs:element name="GetModelsByNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="tns5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetModelsByNameResult:** The list of Models.

### 3.1.4.77.3 Complex Types

None.

### 3.1.4.77.4 Simple Types

None.

### 3.1.4.77.5 Attributes

None.

### 3.1.4.77.6 Groups

None.

### 3.1.4.77.7 Attribute Groups

None.

### 3.1.4.78 GetParameterById

This operation is used to retrieve the Parameter with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetParameterById** WSDL operation.

```

<wsdl:operation name="GetParameterById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The specified MetadataObjectId is 0.

Error complex type	Condition
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A Parameter with the specified <b>MetadataObjectId</b> does not exist and the value of <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.78.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetParameterById_InputMessage</b>	The request WSDL message for the <b>GetParameterById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetParameterById_OutputMessage</b>	The response WSDL message for the <b>GetParameterById</b> WSDL operation.

#### 3.1.4.78.1.1

##### **BusinessDataCatalogSharedService\_GetParameterById\_InputMessage**

The request WSDL message for the **GetParameterById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParameterById
```

The SOAP body contains the **GetParameterById** element.

#### 3.1.4.78.1.2

##### **BusinessDataCatalogSharedService\_GetParameterById\_OutputMessage**

The response WSDL message for the **GetParameterById** WSDL operation.

The SOAP body contains the **GetParameterByIdResponse** element.

### 3.1.4.78.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetParameterById</b>	The input data for the <b>GetParameterById</b> WSDL operation.
<b>GetParameterByIdResponse</b>	The result data for the <b>GetParameterById</b> WSDL operation.

### 3.1.4.78.2.1 GetParameterById

The **GetParameterById** element specifies the input data for the **GetParameterById** WSDL operation.

```
<xs:element name="GetParameterById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameterId:** The MetadataObjectId of the Parameter.

**performErrorCheck:** The value of this element MUST be ignored if a **Parameter** with the specified **MetadataObjectId** exists. If a **Parameter** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.78.2.2 GetParameterByIdResponse

The **GetParameterByIdResponse** element specifies the result data for the **GetParameterById** WSDL operation.

```
<xs:element name="GetParameterByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="tns5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetParameterByIdResult:** The Parameter.

### 3.1.4.78.3 Complex Types

None.

### 3.1.4.78.4 Simple Types

None.

### 3.1.4.78.5 Attributes

None.



### 3.1.4.78.6 Groups

None.

### 3.1.4.78.7 Attribute Groups

None.

### 3.1.4.79 GetParametersForMethod

This operation is used to retrieve the Parameters of the specified Method.

The following is the WSDL port type specification of the **GetParametersForMethod** WSDL operation.

```
<wsdl:operation name="GetParametersForMethod" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodResponse"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodInvalidOperationExceptionFault"
    name="InvalidOperationExceptionExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethodMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.<90>
<b>MetadataObjectNotFoundExpectionState</b> (section <a href="#">2.2.4.43</a> )	The specified Method does not exist.<91>

### 3.1.4.79.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage</b>	The request WSDL message for the <b>GetParametersForMethod</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage</b>	The response WSDL message for the <b>GetParametersForMethod</b> WSDL operation.

#### 3.1.4.79.1.1

### **BusinessDataCatalogSharedService\_GetParametersForMethod\_InputMessage**

The request WSDL message for the **GetParametersForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod
```

The SOAP body contains the **GetParametersForMethod** element.

#### 3.1.4.79.1.2

### **BusinessDataCatalogSharedService\_GetParametersForMethod\_OutputMessage**

The response WSDL message for the **GetParametersForMethod** WSDL operation.

The SOAP body contains the **GetParametersForMethodResponse** element.

### 3.1.4.79.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetParametersForMethod</b>	The input data for the <b>GetParametersForMethod</b> WSDL operation.
<b>GetParametersForMethodResponse</b>	The result data for the <b>GetParametersForMethod</b> WSDL operation.

#### 3.1.4.79.2.1 GetParametersForMethod

The **GetParametersForMethod** element specifies the input data for the **GetParametersForMethod** WSDL operation.

```
<xs:element name="GetParametersForMethod" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId of the Method.

**partitionId:** An empty GUID.

#### 3.1.4.79.2.2 GetParametersForMethodResponse

The **GetParametersForMethodResponse** element specifies the result data for the **GetParametersForMethod** WSDL operation.

```
<xs:element name="GetParametersForMethodResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParametersForMethodResult" nillable="true" type="tns5:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetParametersForMethodResult:** The list of Parameters.

### 3.1.4.79.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
<b>ArrayOfParameterStruct</b>	Contains a list of Parameters.

### 3.1.4.79.3.1 ArrayOfParameterStruct

**Namespace:** Microsoft.SharePoint.BusinessData

The **ArrayOfParameterStruct** complex type contains a list of Parameters.

```
<xs:complexType name="ArrayOfParameterStruct" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
      type="tns5:ParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

**ParameterStruct:** A Parameter.

### 3.1.4.79.4 Simple Types

None.

### 3.1.4.79.5 Attributes

None.

### 3.1.4.79.6 Groups

None.

### 3.1.4.79.7 Attribute Groups

None.

### 3.1.4.80 GetRootTypeDescriptorForParameter

This operation is used to retrieve the root TypeDescriptor of the specified Parameter.

The following is the WSDL port type specification of the **GetRootTypeDescriptorForParameter** WSDL operation.

```
<wsdl:operation name="GetRootTypeDescriptorForParameter"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter"
    message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse"
    message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutO
fRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcException
StateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOpera
tionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage**

request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage**

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified Parameter does not exist.

### 3.1.4.80.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage</b>	The request WSDL message for the <b>GetRootTypeDescriptorForParameter</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage</b>	The response WSDL message for the <b>GetRootTypeDescriptorForParameter</b> WSDL operation.

### 3.1.4.80.1.1

#### **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_InputMessage**

The request WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter
```

The SOAP body contains the **GetRootTypeDescriptorForParameter** element.

### 3.1.4.80.1.2

#### **BusinessDataCatalogSharedService\_GetRootTypeDescriptorForParameter\_OutputMessage**

The response WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

The SOAP body contains the **GetRootTypeDescriptorForParameterResponse** element.

### 3.1.4.80.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetRootTypeDescriptorForParameter</b>	The input data for the <b>GetRootTypeDescriptorForParameter</b> WSDL operation.
<b>GetRootTypeDescriptorForParameterResponse</b>	The result data for the <b>GetRootTypeDescriptorForParameter</b> WSDL operation.

#### 3.1.4.80.2.1 **GetRootTypeDescriptorForParameter**

The **GetRootTypeDescriptorForParameter** element specifies the input data for the **GetRootTypeDescriptorForParameter** WSDL operation.

```

<xs:element name="GetRootTypeDescriptorForParameter"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**parameterId:** The MetadataObjectId of the Parameter.

**partitionId:** An empty GUID.

### 3.1.4.80.2.2 GetRootTypeDescriptorForParameterResponse

The **GetRootTypeDescriptorForParameterResponse** element specifies the result data for the **GetRootTypeDescriptorForParameter** WSDL operation.

```

<xs:element name="GetRootTypeDescriptorForParameterResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetRootTypeDescriptorForParameterResult" nillable="true"
        type="tns5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetRootTypeDescriptorForParameterResult:** The root TypeDescriptor of the Parameter.

### 3.1.4.80.3 Complex Types

None.

### 3.1.4.80.4 Simple Types

None.

### 3.1.4.80.5 Attributes

None.

### 3.1.4.80.6 Groups

None.

### 3.1.4.80.7 Attribute Groups

None.

### 3.1.4.81 GetServiceApplicationId

This operation is used to retrieve the unique implementation-specific identifier of metadata store.

The following is the WSDL port type specification of the **GetServiceApplicationId** WSDL operation.

```
<wsdl:operation name="GetServiceApplicationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId"
    message="tns6:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a

**BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage** response message.

#### 3.1.4.81.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage</b>	The request WSDL message for the <b>GetServiceApplicationId</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage</b>	The response WSDL message for the <b>GetServiceApplicationId</b> WSDL operation.

##### 3.1.4.81.1.1

#### **BusinessDataCatalogSharedService\_GetServiceApplicationId\_InputMessage**

The request WSDL message for the **GetServiceApplicationId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetServiceApplicationId
```

The SOAP body contains the **GetServiceApplicationId** element.



### 3.1.4.81.1.2

#### BusinessDataCatalogSharedService\_GetServiceApplicationId\_OutputMessage

The response WSDL message for the **GetServiceApplicationId** WSDL operation.

The SOAP body contains the **GetServiceApplicationIdResponse** element.

### 3.1.4.81.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetServiceApplicationId</b>	The input data for the <b>GetServiceApplicationId</b> WSDL operation.
<b>GetServiceApplicationIdResponse</b>	The result data for the <b>GetServiceApplicationId</b> WSDL operation.

#### 3.1.4.81.2.1 GetServiceApplicationId

The **GetServiceApplicationId** element specifies the input data for the **GetServiceApplicationId** WSDL operation.

```
<xs:element name="GetServiceApplicationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.81.2.2 GetServiceApplicationIdResponse

The **GetServiceApplicationIdResponse** element specifies the result data for the **GetServiceApplicationId** WSDL operation.

```
<xs:element name="GetServiceApplicationIdResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetServiceApplicationIdResult:** The unique implementation-specific identifier of metadata store. The value of the identifier MUST be a GUID.

### 3.1.4.81.3 Complex Types

None.

### 3.1.4.81.4 Simple Types

None.

### 3.1.4.81.5 Attributes

None.

### 3.1.4.81.6 Groups

None.

### 3.1.4.81.7 Attribute Groups

None.

### 3.1.4.82 GetSystemUtilityTypeNameForLobSystem

This operation is used to retrieve the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.

The following is the WSDL port type specification of the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentE
xceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentN
ullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentO
utOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The module cannot be found or loaded.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>InvalidMetadataPropertyExceptionState</b> (section <a href="#">2.2.4.37</a> )	The specified LobSystem has an invalid value for the Property named "SystemUtilityTypeName". Validity of this <b>Property</b> is specified in section <a href="#">3.1.4.82.2.2</a> .

### 3.1.4.82.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage</b>	The request WSDL message for the <b>GetSystemUtilityTypeNameForLobSystem</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage</b>	The response WSDL message for the <b>GetSystemUtilityTypeNameForLobSystem</b> WSDL operation.

### 3.1.4.82.1.1

#### **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_InputMessage**

The request WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem
```

The SOAP body contains the **GetSystemUtilityTypeNameForLobSystem** element.

### 3.1.4.82.1.2

#### **BusinessDataCatalogSharedService\_GetSystemUtilityTypeNameForLobSystem\_OutputMessage**

The response WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

The SOAP body contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

### 3.1.4.82.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetSystemUtilityTypeNameForLobSystem</b>	The input data for the <b>GetSystemUtilityTypeNameForLobSystem</b> WSDL operation.
<b>GetSystemUtilityTypeNameForLobSystemResponse</b>	The result data for the <b>GetSystemUtilityTypeNameForLobSystem</b> WSDL operation.

#### 3.1.4.82.2.1 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** element specifies the input data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystem"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lobSystemStruct:** The LobSystem.

### 3.1.4.82.2.2 GetSystemUtilityTypeNameForLobSystemResponse

The **GetSystemUtilityTypeNameForLobSystemResponse** element specifies the result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystemResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult"
        nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSystemUtilityTypeNameForLobSystemResult:** The implementation-specific [92](#) identifier of the module that executes operations in the line-of-business (LOB) system.

### 3.1.4.82.3 Complex Types

None.

### 3.1.4.82.4 Simple Types

None.

### 3.1.4.82.5 Attributes

None.

### 3.1.4.82.6 Groups

None.

### 3.1.4.82.7 Attribute Groups

None.

### 3.1.4.83 GetTypeDescriptorById

This operation is used to retrieve the TypeDescriptor with the specified MetadataObjectId.

The following is the WSDL port type specification of the **GetTypeDescriptorById** WSDL operation.

```
<wsdl:operation name="GetTypeDescriptorById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById"
    message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse"
    message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeException
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding server error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	A TypeDescriptor with the specified <b>MetadataObjectId</b> does not exist and the value of the <b>performErrorCheck</b> element is <b>true</b> .

### 3.1.4.83.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage</b>	The request WSDL message for the <b>GetTypeDescriptorById</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage</b>	The response WSDL message for the <b>GetTypeDescriptorById</b> WSDL operation.

### 3.1.4.83.1.1

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_InputMessage**

The request WSDL message for the **GetTypeDescriptorById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById
```

The SOAP body contains the **GetTypeDescriptorById** element.

### 3.1.4.83.1.2

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorById\_OutputMessage**

The response WSDL message for the **GetTypeDescriptorById** WSDL operation.

The SOAP body contains the **GetTypeDescriptorByIdResponse** element.

### 3.1.4.83.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetTypeDescriptorById</b>	The input data for the <b>GetTypeDescriptorById</b> WSDL operation.
<b>GetTypeDescriptorByIdResponse</b>	The result data for the <b>GetTypeDescriptorById</b> WSDL operation.

#### 3.1.4.83.2.1 GetTypeDescriptorById

The **GetTypeDescriptorById** element specifies the input data for the **GetTypeDescriptorById** WSDL operation.

```
<xs:element name="GetTypeDescriptorById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**typeDescriptorId:** The MetadataObjectId of the TypeDescriptor.

**performErrorCheck:** The value of this element MUST be ignored if a **TypeDescriptor** with the specified **MetadataObjectId** exists. If a **TypeDescriptor** with the specified **MetadataObjectId** does not exist and value of this element is **false**, the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

**partitionId:** An empty GUID.

### 3.1.4.83.2 GetTypeDescriptorByIdResponse

The **GetTypeDescriptorByIdResponse** element specifies the result data for the **GetTypeDescriptorById** WSDL operation.

```
<xs:element name="GetTypeDescriptorByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="GetTypeDescriptorByIdResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetTypeDescriptorByIdResult:** The TypeDescriptor.

### 3.1.4.83.3 Complex Types

None.

### 3.1.4.83.4 Simple Types

None.

### 3.1.4.83.5 Attributes

None.

### 3.1.4.83.6 Groups

None.

### 3.1.4.83.7 Attribute Groups

None.

### 3.1.4.84 GetTypeDescriptorsByNameAndLevelForParameter

This operation SHOULD [<93>](#) retrieve the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a **TypeDescriptor** is defined as follows:

- The level of the root **TypeDescriptor** is 0.



- The level of specified **TypeDescriptor** is 1 plus the level of the **TypeDescriptor** containing the specified **TypeDescriptor**.

The following is the WSDL port type specification of the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_I
nputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_O
utputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentNullExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_A
rgumentOutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_B
dcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_I
nvalidOperationExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_M
etadataExceptionStateFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_I**

**InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified MetadataObjectId is 0.</li> <li>▪ The specified level is less than 0.</li> </ul>

### 3.1.4.84.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage</b>	The request WSDL message for the <b>GetTypeDescriptorsByNameAndLevelForParameter</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage</b>	The response WSDL message for the <b>GetTypeDescriptorsByNameAndLevelForParameter</b> WSDL operation.

#### 3.1.4.84.1.1

### **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_InputMessage**

The request WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter
```

The SOAP body contains the **GetTypeDescriptorsByNameAndLevelForParameter** element.

### 3.1.4.84.1.2

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorsByNameAndLevelForParameter\_OutputMessage**

The response WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

The SOAP body contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

### 3.1.4.84.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetTypeDescriptorsByNameAndLevelForParameter</b>	The input data for the <b>GetTypeDescriptorsByNameAndLevelForParameter</b> WSDL operation.
<b>GetTypeDescriptorsByNameAndLevelForParameterResponse</b>	The result data for the <b>GetTypeDescriptorsByNameAndLevelForParameter</b> WSDL operation.

#### 3.1.4.84.2.1 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** element specifies the input data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="level" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**name:** The name of the TypeDescriptors that are retrieved.

**parameterId:** The MetadataObjectId of the Parameter.

**level:** The level of the TypeDescriptors that are retrieved. [<94>](#)

**partitionId:** An empty GUID.

#### 3.1.4.84.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse

The **GetTypeDescriptorsByNameAndLevelForParameterResponse** element specifies the result data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```

<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="tns5:ArrayOfPropertyDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetTypeDescriptorsByNameAndLevelForParameterResult:** The list of TypeDescriptors.

### 3.1.4.84.3 Complex Types

None.

### 3.1.4.84.4 Simple Types

None.

### 3.1.4.84.5 Attributes

None.

### 3.1.4.84.6 Groups

None.

### 3.1.4.84.7 Attribute Groups

None.

## 3.1.4.85 GetTypeDescriptorsForFilterDescriptor

This operation is used to retrieve TypeDescriptors referenced by the specified FilterDescriptor.

The following is the WSDL port type specification of the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```

<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"

```

```

message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
NullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Argument
OutOfRangeExceptionFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExcep
tionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidO
perationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Metadate
ExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The specified MetadataObjectId of the <b>FilterDescriptor</b> is 0.

### 3.1.4.85.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDe</b>	The request WSDL message for

Message	Description
<b>scriptor_InputMessage</b>	the <b>GetTypeDescriptorsForFilterDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage</b>	The response WSDL message for the <b>GetTypeDescriptorsForFilterDescriptor</b> WSDL operation.

### 3.1.4.85.1.1

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_InputMessage**

The request WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor
```

The SOAP body contains the **GetTypeDescriptorsForFilterDescriptor** element.

### 3.1.4.85.1.2

#### **BusinessDataCatalogSharedService\_GetTypeDescriptorsForFilterDescriptor\_OutputMessage**

The response WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

The SOAP body contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

### 3.1.4.85.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetTypeDescriptorsForFilterDescriptor</b>	The input data for the <b>GetTypeDescriptorsForFilterDescriptor</b> WSDL operation.
<b>GetTypeDescriptorsForFilterDescriptorResponse</b>	The result data for the <b>GetTypeDescriptorsForFilterDescriptor</b> WSDL operation.

#### 3.1.4.85.2.1 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** element specifies the input data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```
<xs:element name="GetTypeDescriptorsForFilterDescriptor"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**filterDescriptorId:** The MetadataObjectId of the FilterDescriptor.

**partitionId:** An empty GUID.

### 3.1.4.85.2.2 GetTypeDescriptorsForFilterDescriptorResponse

The **GetTypeDescriptorsForFilterDescriptorResponse** element specifies the result data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```

<xs:element name="GetTypeDescriptorsForFilterDescriptorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetTypeDescriptorsForFilterDescriptorResult:** The list of TypeDescriptors that are referenced by the specified FilterDescriptor.

### 3.1.4.85.3 Complex Types

None.

### 3.1.4.85.4 Simple Types

None.

### 3.1.4.85.5 Attributes

None.

### 3.1.4.85.6 Groups

None.

### 3.1.4.85.7 Attribute Groups

None.

### 3.1.4.86 GetTypeReflectorTypeNameForParameter

This operation is used to retrieve the implementation-specific name of the type of the TypeReflector of the specified Parameter.

The following is the WSDL port type specification of the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<wsdl:operation name="GetTypeReflectorTypeNameForParameter"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage** request message, and the protocol server MUST respond with a



**BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section 2.2.4.7)	The type specified by a type name of the TypeReflector of the specified Parameter is invalid according to the protocol server's implementation-specific rules.
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The MetadataObjectId of the specified Parameter is 0.

### 3.1.4.86.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage</b>	The request WSDL message for the <b>GetTypeReflectorTypeNameForParameter</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage</b>	The response WSDL message for the <b>GetTypeReflectorTypeNameForParameter</b> WSDL operation.

#### 3.1.4.86.1.1

### **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_InputMessage**

The request WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter>

The SOAP body contains the **GetTypeReflectorTypeNameForParameter** element.

#### 3.1.4.86.1.2

### **BusinessDataCatalogSharedService\_GetTypeReflectorTypeNameForParameter\_OutputMessage**

The response WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

The SOAP body contains the **GetTypeReflectorTypeNameForParameterResponse** element.

### 3.1.4.86.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetTypeReflectorTypeNameForParameter</b>	The input data for the <b>GetTypeReflectorTypeNameForParameter</b> WSDL operation.
<b>GetTypeReflectorTypeNameForParameterResponse</b>	The result data for the <b>GetTypeReflectorTypeNameForParameter</b> WSDL operation.

#### 3.1.4.86.2.1 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** element specifies the input data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<xs:element name="GetTypeReflectorTypeNameForParameter"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameterStruct:** The Parameter for which the type name of the TypeReflector will be retrieved.

#### 3.1.4.86.2.2 GetTypeReflectorTypeNameForParameterResponse

The **GetTypeReflectorTypeNameForParameterResponse** element specifies the result data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<xs:element name="GetTypeReflectorTypeNameForParameterResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
        nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetTypeReflectorTypeNameForParameterResult:** The implementation-specific name of the type of the TypeReflector of the specified Parameter.

### 3.1.4.86.3 Complex Types

None.

#### 3.1.4.86.4 Simple Types

None.

#### 3.1.4.86.5 Attributes

None.

#### 3.1.4.86.6 Groups

None.

#### 3.1.4.86.7 Attribute Groups

None.

#### 3.1.4.87 GetXmlSchemaForView

This operation is used to retrieve an XML schema definition (XSD) that specifies a data structure that can store the data corresponding to a View that corresponds to the specified MethodInstance. The resulting XSD MUST conform to [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#). The following types of **MethodInstance** have a **View** corresponding to them:

- SpecificFinder
- BulkSpecificFinder
- Finder
- AssociationNavigator
- BulkAssociationNavigator
- IdEnumerator
- ChangedIdEnumerator
- DeletedIdEnumerator
- BulkIdEnumerator
- Creator
- Updater

The MethodInstances of any other type do not have a View associated with them.

The following is the WSDL port type specification of the **GetXmlSchemaForView** WSDL operation.

```
<wsdl:operation name="GetXmlSchemaForView" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView"
    message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse"
  </wsdl:output>
</wsdl:operation>
```

```

message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFaul
t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The specified <b>MethodInstance</b> does not have a <b>View</b> .<95>
<b>ArgumentNullException</b> (section <a href="#">2.2.4.8</a> )	The specified <b>MethodInstance</b> does not have a <b>ReturnTypeDescriptor</b> and it is not an <b>Updater</b> or a <b>Creator</b> .
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The <b>MetadataObjectId</b> of the specified <b>MetadataObject</b> is greater than 0x7fffffff.
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The specified <b>MethodInstance</b> does not exist.

### 3.1.4.87.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage</b>	The request WSDL message for the <b>GetXmlSchemaForView</b> WSDL operation.
<b>BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage</b>	The response WSDL message for the <b>GetXmlSchemaForView</b> WSDL operation.

#### 3.1.4.87.1.1

##### **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_InputMessage**

The request WSDL message for the **GetXmlSchemaForView** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView
```

The SOAP body contains the **GetXmlSchemaForView** element.

#### 3.1.4.87.1.2

##### **BusinessDataCatalogSharedService\_GetXmlSchemaForView\_OutputMessage**

The response WSDL message for the **GetXmlSchemaForView** WSDL operation.

The SOAP body contains the **GetXmlSchemaForViewResponse** element.

### 3.1.4.87.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>GetXmlSchemaForView</b>	The input data for the <b>GetXmlSchemaForView</b> WSDL operation.
<b>GetXmlSchemaForViewResponse</b>	The result data for the <b>GetXmlSchemaForView</b> WSDL operation.

#### 3.1.4.87.2.1 GetXmlSchemaForView

The **GetXmlSchemaForView** element specifies the input data for the **GetXmlSchemaForView** WSDL operation.

```
<xs:element name="GetXmlSchemaForView" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="tns5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**methodInstanceStruct:** The MethodInstance.

### 3.1.4.87.2.2 GetXmlSchemaForViewResponse

The **GetXmlSchemaForViewResponse** element specifies the result data for the **GetXmlSchemaForView** WSDL operation.

```

<xs:element name="GetXmlSchemaForViewResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetXmlSchemaForViewResult:** A string that contains the resulting XML schema. The XML schema MUST conform to [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#). The XML namespace specified by the XML schema is implementation-specific [<96>](#). The XML schema MUST specify the **root element** that corresponds to the View. The name the root element MUST be equal to the name of the **View**. The root element MUST contain exactly one **XML element** for each of the fields (4) in the **View**. The XML element is declared based on the TypeDescriptors that correspond to fields (4). For each **TypeDescriptor** the corresponding XML element MUST be declared as follows:

- The name of the corresponding XML element MUST be equal to the name of the **TypeDescriptor**.
- If the **TypeDescriptor** contains one or more other **TypeDescriptors**, the corresponding XML element MUST be declared as a **complex type** that contains XML elements that correspond to **TypeDescriptors** contained by the **TypeDescriptor**.
- If the **TypeDescriptor** does not contain any **TypeDescriptors**, and the data type represented by the **TypeDescriptor** can be represented by a **simple type**, the corresponding XML element MUST be declared as that simple type. For example, if the data type represents a bit, the corresponding XML element is declared as "Boolean" simple type as specified in [\[XMLSCHEMA2\]](#) section 3.2.2.
- If the **TypeDescriptor** does not contain any **TypeDescriptors**, and the data type represented by the **TypeDescriptor** cannot be represented by a simple type, the corresponding XML element SHOULD be declared as a complex type that contains a single XML element as specified in [\[XMLSCHEMA0\]](#) section 5.5. However, if the data type represented by the **TypeDescriptor** can be represented by a set of simple types, the corresponding XML element MAY be declared as a complex type that contains XML elements to represent the set of simple types.
- If the **TypeDescriptor** is contained by another **TypeDescriptor** which has the **IsCollection** flag set to **true**, the value of the "maxOccurs" attribute as specified in [\[XMLSCHEMA1\]](#) section 3.3.2 MUST be "unbounded". Otherwise, the value MUST be 1.

XML elements corresponding to **TypeDescriptors** MUST contain the following annotations as specified in [XMLSCHEMA1] section 3.13. The XML elements MAY also contain additional implementation-specific annotations, or additional implementation-specific **XML attributes** for the XML elements that represent the annotations specified in this section. The XML namespace of the XML elements that correspond to annotations are implementation-specific. <97>

- If the **TypeDescriptor** has the **ReadOnly** flag set to **true**, the XML element MUST contain an annotation with name "FieldInfo", which has an XML attribute with name "ReadOnly" and value **true**.
- If the **TypeDescriptor** references an Identifier, and the **TypeDescriptor** references an Association, the XML element MUST contain an annotation with name "ForeignKeyInfo" that has the XML attributes in the following table specified with their names and values.

Name	Value
EntityNamespace	The namespace of the Entity that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
EntityName	The name of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
IdentifierIndex	The index of the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> , within the <b>Entity</b> that contains the <b>Identifier</b> .
AssociationName	The name of the <b>Association</b> referenced by the <b>TypeDescriptor</b>

- If the **TypeDescriptor** references an **Identifier**, and the **TypeDescriptor** does not reference an **Association**, the XML element MUST contain an annotation with name "KeyInfo" that has the XML attributes in the following table specified with their names and values.

Name	Value
EntityNamespace	The namespace of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
EntityName	The name of the <b>Entity</b> that contains the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> .
IdentifierIndex	The index of the <b>Identifier</b> referenced by the <b>TypeDescriptor</b> , within the <b>Entity</b> that contains the <b>Identifier</b> .

- If the **TypeDescriptor** contains localized names, the XML element MUST contain an annotation with name "LocalizedNames". The XML element that represents the annotation MUST contain XML elements with name "LocalizedName" for each localized name contained by the **TypeDescriptor**. The value of the "LocalizedName" element MUST be the localized name, and it MUST have an XML attribute with name "LCID" and the LCID of the localized name as the value.
- If the **TypeDescriptor** has a DefaultValue for the specified MethodInstance, and data type of the **DefaultValue** can be represented by a simple type, the XML element MUST contain an annotation with name "DefaultValue" and the data of **DefaultValue** as the value.

### 3.1.4.87.3 Complex Types

None.

### 3.1.4.87.4 Simple Types

None.

### 3.1.4.87.5 Attributes

None.

### 3.1.4.87.6 Groups

None.

### 3.1.4.87.7 Attribute Groups

None.

### 3.1.4.88 HaveRights

The **HaveRights** operation retrieves whether the [security principal \(2\)](#) in whose context the protocol client is operating has the specified permission on the specified **MetadataObject** based on the permissions specified by the ACEs in the specified Setting associated with the specified **MetadataObject**.

The following is the WSDL port type specification of the **HaveRights** WSDL operation.

```
<wsdl:operation name="HaveRights" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights" message="tns6:BusinessDataCatalogSharedService_HaveRights_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse"
    message="tns6:BusinessDataCatalogSharedService_HaveRights_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```



```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMe
ssage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_HaveRights\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_HaveRights\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The MetadataObjectId of the specified MetadataObject is 0.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.88.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_HaveRights_InputMessage</b>	The request WSDL message for the <b>HaveRights</b> WSDL operation.
<b>BusinessDataCatalogSharedService_HaveRights_OutputMessage</b>	The response WSDL message for the <b>HaveRights</b> WSDL operation.

#### 3.1.4.88.1.1 BusinessDataCatalogSharedService\_HaveRights\_InputMessage

The request WSDL message for the **HaveRights** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Hav
eRights

```

The SOAP body contains the **HaveRights** element.

#### 3.1.4.88.1.2 BusinessDataCatalogSharedService\_HaveRights\_OutputMessage

The response WSDL message for the **HaveRights** WSDL operation.

The SOAP body contains the **HaveRightsResponse** element.

### 3.1.4.88.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>HaveRights</b>	The input data for the <b>HaveRights</b> WSDL operation.
<b>HaveRightsResponse</b>	The result data for the <b>HaveRights</b> WSDL operation.

#### 3.1.4.88.2.1 HaveRights

The **HaveRights** element specifies the input data for the **HaveRights** WSDL operation.

```
<xs:element name="HaveRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="tns:BdcRights"/>
      <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The **MetadataObject**. The partition (1) of this **MetadataObject** MUST be an empty GUID.

**rights:** The permission to check.

**fallBack:** When the value of this element is **true**, the protocol server MUST use the ACEs in the default **Setting** for the specified **MetadataObject** if there are no ACEs exist in the specified **Setting** for the specified **MetadataObject**.

**settingId:** The **Setting** which contains the ACEs. If the value of this element is NULL the protocol server MUST use the ACEs contained by the default **Setting**.

#### 3.1.4.88.2.2 HaveRightsResponse

The **HaveRightsResponse** element specifies the result data for the **HaveRights** WSDL operation.

```
<xs:element name="HaveRightsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**HaveRightsResult:** If the [security principal \(2\)](#) in whose context the protocol client is operating has the specified permissions, this value MUST be set to TRUE. Otherwise, this value MUST be set to FALSE.

### 3.1.4.88.3 Complex Types

None.

### 3.1.4.88.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>BdcRights</b>	Specifies the permission given a <a href="#">security principal (1)</a> on a MetadataObject.

#### 3.1.4.88.4.1 BdcRights

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcRights** simple type represents a permission a given [security principal \(2\)](#) can have on a MetadataObject.

```
<xs:simpleType name="BdcRights" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Execute"/>
        <xs:enumeration value="Edit"/>
        <xs:enumeration value="SetPermissions"/>
        <xs:enumeration value="UseInBusinessDataInLists"/>
        <xs:enumeration value="SelectableInClients"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **BdcRights** simple type.

Value	Meaning
None	No permissions.
Execute	The security principal (2) has the permission to call a MethodInstance.
Edit	The security principal (2) has permission to change the attributes of a <b>MetadataObject</b> or its relationship to other <b>MetadataObjects</b> .
SetPermissions	The security principal (2) has permission to change the set of permissions for a <b>MetadataObject</b> .
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.

Value	Meaning
SelectableInClients	The security principal (2) has permission to select the <b>MetadataObject</b> this permission refers to in an implementation-specific user interface from a list of available <b>MetadataObjects</b> . If the security principal (2) does not have this permission, the <b>MetadataObject</b> SHOULD NOT be presented in such a list.

### 3.1.4.88.5 Attributes

None.

### 3.1.4.88.6 Groups

None.

### 3.1.4.88.7 Attribute Groups

None.

### 3.1.4.89 ImportPackage

This operation is used to create the following objects in the metadata store:

- MetadataObjects contained by the specified MetadataModel along with their Properties, localized names and ACEs, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as XML that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains an LobSystem that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all LobSystemInstances contained by that **LobSystem** along with properties, localized names and ACEs of the ignored MetadataObjects. If the **MetadataModel** contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** along with the properties, localized names, and ACEs of the ignored **MetadataObjects**.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML that conforms to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

The following is the WSDL port type specification of the **ImportPackage** WSDL operation.

```
<wsdl:operation name="ImportPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage"
    message="tns6:BusinessDataCatalogSharedService_ImportPackage_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageResponse"
    message="tns6:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageFault"
    message="tns6:BusinessDataCatalogSharedService_ImportPackageFault"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

edService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackage\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to create or modify the specified Model.
<b>PackageFormatExceptionState</b> (section 2.2.4.48)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and the specified XML does not conform to <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34.</li> <li>▪ The "Model" value is not specified for the <b>packageContents</b> element and the specified XML does not conform to <a href="#">[MS-</a></li> </ul>

Error complex type	Condition
	<p data-bbox="695 201 993 226"><a href="#">BDCMFFS</a> section 2.2.3.28.</p> <ul style="list-style-type: none"> <li data-bbox="659 254 1360 352">▪ The value of the <b>updateModel</b> element is "false", the "Model" value is specified for <b>packageContents</b> element and there is already another <b>Model</b> with the same name as the <b>Model</b> contained by the <b>MetadataModel</b> in the specified Partition.</li> <li data-bbox="659 380 1386 478">▪ The value of the <b>updateModel</b> element is "true", the "Model" value is specified for <b>packageContents</b> element and the <b>Model</b> contained by the <b>MetadataModel</b> does not exist in the specified <b>Partition</b>.</li> <li data-bbox="659 506 1354 583">▪ The "Model" value is not specified for the <b>packageContents</b> element and at least one the <b>MetadataObjects</b> contained by the <b>MetadataModel</b> does not exist in the metadata store.</li> <li data-bbox="659 611 1365 762">▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>LobSystems</b> contained by the <b>MetadataModel</b> has the same name as an <b>LobSystem</b> in the metadata store, but the <b>LobSystem</b> contained by the <b>MetadataModel</b> has a different type than the <b>LobSystem</b> in the metadata store.</li> <li data-bbox="659 789 1393 915">▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>Entities</b> contained by the <b>MetadataModel</b> has the same name, namespace and version as an <b>Entity</b> in the metadata store, but the names of the <b>LobSystems</b> that contain these <b>Entities</b> are not identical.</li> <li data-bbox="659 942 1393 1020">▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified <b>MetadataModel</b> contains <b>LobSystem</b> with an associated Business Logic Module.</li> <li data-bbox="659 1047 1377 1146">▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one FilterDescriptor of type TimeStampFilter.</li> <li data-bbox="659 1173 1305 1272">▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.</li> <li data-bbox="659 1299 1386 1482">▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnPropertyDescriptor</b> of this MethodInstance contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LobSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</li> <li data-bbox="659 1509 1360 1707">▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains MethodInstance, and the Method for which this <b>MethodInstance</b> is being created does not have a Parameter whose <b>Direction</b> is "In" or "InOut" and the type of the this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li data-bbox="695 1682 889 1707">▪ AccessChecker</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a TimeStampFilter and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> </ul>

### 3.1.4.89.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_ImportPackage_InputMessage</b>	The request WSDL message for the <b>ImportPackage</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ImportPackage_OutputMessage</b>	The response WSDL message for the <b>ImportPackage</b> WSDL operation.

### 3.1.4.89.1.1 BusinessDataCatalogSharedService\_ImportPackage\_InputMessage

The request WSDL message for the **ImportPackage** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage
```

The SOAP body contains the **ImportPackage** element.

### 3.1.4.89.1.2 BusinessDataCatalogSharedService\_ImportPackage\_OutputMessage

The response WSDL message for the **ImportPackage** WSDL operation.

The SOAP body contains the **ImportPackageResponse** element.

## 3.1.4.89.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>ImportPackage</b>	The input data for the <b>ImportPackage</b> WSDL operation.
<b>ImportPackageResponse</b>	The result data for the <b>ImportPackage</b> WSDL operation.

### 3.1.4.89.2.1 ImportPackage

The **ImportPackage** element specifies the input data for the **ImportPackage** WSDL operation.

```
<xs:element name="ImportPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the MetadataModel that conforms to [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Model" value is specified, this operation MUST create MetadataObjects in the metadata store. The protocol server MUST set all the Entities contained by the specified **MetadataModel**



as active. If any of the **Entities** contain reference errors as specified in section [3.1.4.4.3.2](#), the protocol server MUST NOT set any Entity contained by the specified **MetadataModel** as active.

- If "Model" value is not specified the protocol server MUST NOT create any **MetadataObjects**.

If the "Properties" value is specified the protocol server MUST create the specified Properties for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified Setting for the **MetadataObject**, the Property in the metadata store MUST be replaced.

- If the "Properties" value is not specified the protocol server MUST ignore Properties in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified Setting for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**adminStruct:** The MetadataCatalog that contains the Model contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**.

**settingId:** The **Setting** to create the Properties, localized names, and ACEs in.

**callerCultureLcid:** Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **true**, the protocol server MUST remove all Entity references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored.

### 3.1.4.89.2.2 ImportPackageResponse

The **ImportPackageResponse** element specifies the result data for the **ImportPackage** WSDL operation.

```
<xs:element name="ImportPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="tns5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    
  

```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**ImportPackageResult:** The Model from the metadata store that is corresponding to the specified MetadataModel.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

### 3.1.4.89.3 Complex Types

None.

### 3.1.4.89.4 Simple Types

None.

### 3.1.4.89.5 Attributes

None.

### 3.1.4.89.6 Groups

None.

### 3.1.4.89.7 Attribute Groups

None.

### 3.1.4.90 ImportPackageWithProgress

This operation is used to create the following objects in the metadata store:

- MetadataObjects contained by the specified MetadataModel along with their Properties, localized names and ACEs, if the "Model" value is specified for the **packageContents** element. The **MetadataModel** MUST be specified as XML that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.34. If the **MetadataModel** contains an LobSystem that has the same name and type as an **LobSystem** in the metadata store, the **LobSystem** in the **MetadataModel** MUST be ignored by the protocol server along with all LobSystemInstances contained by that **LobSystem** along with properties, localized names, and ACEs of the ignored **MetadataObjects**. If the **MetadataModel** contains an Entity that has the same name, namespace and version as an **Entity** in the metadata store, and if the names of the **LobSystems** that contain these **Entities** are identical, the **Entity** in the **MetadataModel** MUST be ignored by the protocol server along with all **MetadataObjects** contained by the **Entity** or other ignored **MetadataObjects** along with the properties, localized names, and ACEs of the ignored **MetadataObjects**.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the specified **MetadataModel**, if "Model" value is not specified for the **packageContents** element. The **MetadataModel** MUST be specified as an XML that conforms to [\[MS-BDCMFFS\]](#) section 2.2.3.28.

The protocol server **MUST** track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the [GetImportProgress](#) operation with the specified identifier.

The following is the WSDL port type specification of the **ImportPackageWithProgress** WSDL operation.

```
<wsdl:operation name="ImportPackageWithProgress"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to create or modify the specified Model.
<b>PackageFormatExceptionState</b> (section 2.2.4.48)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and the specified XML does not conform to <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34.</li> <li>▪ The "Model" value is not specified for the <b>packageContents</b> element and the specified XML does not conform to <a href="#">[MS-BDCMFFS]</a> section 2.2.3.28.</li> <li>▪ The value of the <b>updateModel</b> element is "false", the "Model" value is specified for <b>packageContents</b> element and there is already another <b>Model</b> with the same name as the <b>Model</b> contained by the <b>MetadataModel</b> in the specified Partition.</li> <li>▪ The value of the <b>updateModel</b> element is "true", the "Model" value is specified for <b>packageContents</b> element and the <b>Model</b> contained by the <b>MetadataModel</b> does not exist in the specified <b>Partition</b>.</li> <li>▪ The "Model" value is not specified for the <b>packageContents</b> element and at least one the <b>MetadataObjects</b> contained by the <b>MetadataModel</b> does not exist in the metadata store.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>LobSystems</b> contained by the <b>MetadataModel</b> has the same name as an <b>LobSystem</b> in the metadata store, but the <b>LobSystem</b> contained by the <b>MetadataModel</b> has a different type than the <b>LobSystem</b> in the metadata store.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element and one of the <b>Entities</b> contained by the <b>MetadataModel</b> has the same name, namespace and version as an <b>Entity</b> in the metadata store, but the names of the <b>LobSystems</b> that contain these <b>Entities</b> are not identical.</li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified <b>MetadataModel</b> contains <b>LobSystem</b> with an associated Business Logic Module.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one FilterDescriptor of type</li> </ul>

Error complex type	Condition
	<p>TimeStampFilter.</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a StreamAccessor and the TypeDescriptor containing the ReturnPropertyDescriptor of this MethodInstance contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LobSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains <b>MethodInstance</b>, and the Method for which this <b>MethodInstance</b> is being created does not have a Parameter whose <b>Direction</b> is "In" or "InOut" and the type of the this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a TimeStampFilter and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ DeletedIdEnumerator</li> </ul>

### 3.1.4.90.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage</b>	The request WSDL message for the <b>ImportPackageWithProgress</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage</b>	The response WSDL message for the <b>ImportPackageWithProgress</b> WSDL operation.

#### 3.1.4.90.1.1

#### **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_InputMessage**

The request WSDL message for the **ImportPackageWithProgress** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress
```

The SOAP body contains the **ImportPackageWithProgress** element.

#### 3.1.4.90.1.2

#### **BusinessDataCatalogSharedService\_ImportPackageWithProgress\_OutputMessage**

The response WSDL message for the **ImportPackageWithProgress** WSDL operation.

The SOAP body contains the **ImportPackageWithProgressResponse** element.

### 3.1.4.90.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>ImportPackageWithProgress</b>	The input data for the <b>ImportPackageWithProgress</b> WSDL operation.
<b>ImportPackageWithProgressResponse</b>	The result data for the <b>ImportPackageWithProgress</b> WSDL operation.

### 3.1.4.90.2.1 ImportPackageWithProgress

The **ImportPackageWithProgress** element specifies the input data for the **ImportPackageWithProgress** WSDL operation.

```
<xs:element name="ImportPackageWithProgress" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns5:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml**: The XML representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#).

**packageContents**: Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Model" value is specified, this operation MUST create **MetadataObjects** in the metadata store. The protocol server MUST set all the **Entities** contained by the specified **MetadataModel** as active. If any of the **Entities** contain reference errors as specified in section [3.1.4.4.3.2](#), the protocol server MUST NOT set any **Entity** contained by the specified **MetadataModel** as active.
- If "Model" value is not specified the protocol server MUST NOT create any **MetadataObjects**.
- If the "Properties" value is specified the protocol server MUST create the specified **Properties** for the corresponding **MetadataObjects**. If the metadata store already contains a **Property** with the same name in the specified Setting for the **MetadataObject**, the **Property** in the metadata store MUST be replaced.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**adminStruct:** The MetadataCatalog that contains the **Model** contained by the **MetadataModel**. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the **Model** in the specified **MetadataCatalog**.

**settingId:** The **Setting** in which to create the **Properties**, localized names, and ACEs.

**callerCultureLcid:** Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **true**, the protocol server MUST remove all **Entity** references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored.

**jobId:** Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

### 3.1.4.90.2.2 ImportPackageWithProgressResponse

The **ImportPackageWithProgressResponse** element specifies the result data for the **ImportPackageWithProgress** WSDL operation.

```
<xs:element name="ImportPackageWithProgressResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="ImportPackageWithProgressResult" nillable="true" type="tns5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ImportPackageWithProgressResult:** The Model from the metadata store that is corresponding to the specified MetadataModel.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

### 3.1.4.90.3 Complex Types

None.

### 3.1.4.90.4 Simple Types

None.

### 3.1.4.90.5 Attributes

None.



### 3.1.4.90.6 Groups

None.

### 3.1.4.90.7 Attribute Groups

None.

### 3.1.4.91 IsMethodInstantiated

This operation is used to determine if the specified Method contains at least one MethodInstance.

The following is the WSDL port type specification of the **IsMethodInstantiated** WSDL operation.

```
<wsdl:operation name="IsMethodInstantiated" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage** response message.

### 3.1.4.91.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage</b>	The request WSDL message for the <b>IsMethodInstantiated</b> WSDL operation.
<b>BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage</b>	The response WSDL message for the <b>IsMethodInstantiated</b> WSDL operation.

#### 3.1.4.91.1.1

### **BusinessDataCatalogSharedService\_IsMethodInstantiated\_InputMessage**

The request WSDL message for the **IsMethodInstantiated** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated
```

The SOAP body contains the **IsMethodInstantiated** element.

#### 3.1.4.91.1.2

### **BusinessDataCatalogSharedService\_IsMethodInstantiated\_OutputMessage**

The response WSDL message for the **IsMethodInstantiated** WSDL operation.

The SOAP body contains the **IsMethodInstantiatedResponse** element.

### 3.1.4.91.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>IsMethodInstantiated</b>	The input data for the <b>IsMethodInstantiated</b> WSDL operation.
<b>IsMethodInstantiatedResponse</b>	The result data for the <b>IsMethodInstantiated</b> WSDL operation.

### 3.1.4.91.2.1 IsMethodInstantiated

The **IsMethodInstantiated** element specifies the input data for the **IsMethodInstantiated** WSDL operation.

```
<xs:element name="IsMethodInstantiated" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**methodId:** The MetadataObjectId for the Method.

**partitionId:** An empty GUID.

### 3.1.4.91.2.2 IsMethodInstantiatedResponse

The **IsMethodInstantiatedResponse** element specifies the result data for the **IsMethodInstantiated** WSDL operation.

```
<xs:element name="IsMethodInstantiatedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**IsMethodInstantiatedResult:** The value of this element MUST be "true", if the Method contains at least one MethodInstance. Otherwise it MUST be set to "false".

### 3.1.4.91.3 Complex Types

None.

### 3.1.4.91.4 Simple Types

None.

### 3.1.4.91.5 Attributes

None.

### 3.1.4.91.6 Groups

None.

### 3.1.4.91.7 Attribute Groups

None.

### 3.1.4.92 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified Parameter contains any TypeDescriptor that is the ReturnTypeDescriptor of any MethodInstance contained by the Method containing the **Parameter**.

The following is the WSDL port type specification of the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<wsdl:operation name="IsParameterReferencedByMethodInstance"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceResponse"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMes**

**sage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The MetadataObjectId of the specified <b>Parameter</b> is 0.
<b>MetadataObjectNotFoundExeptionState</b> (section 2.2.4.43)	The specified <b>Parameter</b> does not exist.

### 3.1.4.92.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage</b>	The request WSDL message for the <b>IsParameterReferencedByMethodInstance</b> WSDL operation.
<b>BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage</b>	The response WSDL message for the <b>IsParameterReferencedByMethodInstance</b> WSDL operation.

#### 3.1.4.92.1.1

### **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_InputMessage**

The request WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance>

The SOAP body contains the **IsParameterReferencedByMethodInstance** element.

#### 3.1.4.92.1.2

### **BusinessDataCatalogSharedService\_IsParameterReferencedByMethodInstance\_OutputMessage**

The response WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

The SOAP body contains the **IsParameterReferencedByMethodInstanceResponse** element.

### 3.1.4.92.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>IsParameterReferencedByMethodInstance</b>	The input data for the <b>IsParameterReferencedByMethodInstance</b> WSDL operation.
<b>IsParameterReferencedByMethodInstanceResponse</b>	The result data for the <b>IsParameterReferencedByMethodInstance</b> WSDL operation.

#### 3.1.4.92.2.1 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** element specifies the input data for the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<xs:element name="IsParameterReferencedByMethodInstance"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameterId:** The MetadataObjectId for the Parameter.

**partitionId:** An empty GUID.

#### 3.1.4.92.2.2 IsParameterReferencedByMethodInstanceResponse

The **IsParameterReferencedByMethodInstanceResponse** element specifies the result data for the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<xs:element name="IsParameterReferencedByMethodInstanceResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
        type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**IsParameterReferencedByMethodInstanceResult:** If the value of this element is **true**, the specified Parameter contains a ReturnPropertyDescriptor. If the value of this element is **false**, the specified **Parameter** does not contain a **ReturnPropertyDescriptor**. [<98>](#)

### 3.1.4.92.3 Complex Types

None.

### 3.1.4.92.4 Simple Types

None.

### 3.1.4.92.5 Attributes

None.

### 3.1.4.92.6 Groups

None.

### 3.1.4.92.7 Attribute Groups

None.

### 3.1.4.93 MetadataObjectCreate

This operation is used to create a MetadataObject in the metadata store. If the specified **MetadataObject** is a MetadataCatalog, and another **MetadataCatalog** with the same Partition as the specified **MetadataCatalog** already exists, then this operation MUST NOT change the state of the data in the metadata store.

The following is the WSDL port type specification of the **MetadataObjectCreate** WSDL operation.

```
<wsdl:operation name="MetadataObjectCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateResponse"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies an LobSystem and the <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>LobSystem</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an Identifier and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Entity specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an Action and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> that contains the <b>Action</b> specified by the <b>parentStruct</b></li> </ul>



Error complex type	Condition
	<p>element.</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies a Method and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the Method specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a FilterDescriptor and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies an <b>Association</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> containing the <b>Method</b> specified by the <b>parentStruct</b> element.</li> </ul>
<p><b>ArgumentException</b> (section <a href="#">2.2.4.7</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies a <b>MetadataObject</b> with invalid attributes.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that specifies a <b>ReturnTypeDescriptor</b> that is not contained by any <b>Parameters</b> that are contained by the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that specifies a <b>ReturnTypeDescriptor</b> that is contained by a <b>Parameter</b> with direction "In".</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that does not specify a <b>ReturnTypeDescriptor</b> and the type of the specified <b>MethodInstance</b> is one of the</li> </ul>

Error complex type	Condition
	<p>following values:</p> <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ Scalar</li> <li>▪ SpecificFinder</li> <li>▪ StreamAccessor</li> </ul> <ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that has a <b>ReturnTypeDescriptor</b> with <b>isCollection</b> element value set to "false" in the <b>typeDescriptorFlags</b> element, and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> </ul> </li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that has a <b>ReturnTypeDescriptor</b> with <b>isCollection</b> element value set to "true" in the <b>typeDescriptorFlags</b> element and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ SpecificFinder</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ Scalar</li> <li>▪ AccessChecker</li> <li>▪ Creator</li> <li>▪ StreamAccessor</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that has a <b>ReturnPropertyDescriptor</b> that contains other <b>TypeDescriptors</b>, and the type of the specified <b>MethodInstance</b> is "StreamAccessor".</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> and the <b>TypeDescriptor</b> that contains the <b>ReturnPropertyDescriptor</b> of the <b>MethodInstance</b> also contains other <b>TypeDescriptors</b>, and the LobSystem that contains the DataClass that contains the <b>Method</b> that contains the <b>MethodInstance</b> does not allow this configuration, and the specified <b>MethodInstance</b> is a StreamAccessor.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b>, and the <b>Method</b> specified by the <b>parentStruct</b> element does not contain a <b>TimeStampFilter</b>, and the type of the specified <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that requires an input but the <b>Method</b> specified by <b>parentStruct</b> does not contain any <b>Parameters</b> with direction "In" or "InOut".</li> <li>▪ The <b>rawValues</b> element specifies a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>, but the <b>Method</b> specified by the <b>parentStruct</b> already contains a <b>TimeStampFilter</b>.</li> <li>▪ The <b>rawValues</b> element specifies a <b>Parameter</b> with direction "Return" but the <b>Method</b> specified by <b>parentStruct</b> already contains another <b>Parameter</b> with direction "Return".</li> <li>▪ The <b>rawValues</b> element specifies an <b>Association</b> and the same <b>Entity</b> is specified as a source of the <b>Association</b> more than once.</li> </ul>
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	The <b>MetadataObject</b> specified in <b>rawValues</b> element is an <b>Entity</b> or a <b>TypeDescriptor</b> .
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	One of the following conditions applies:

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ The <b>rawValues</b> element specifies an <b>LobSystem</b> and another <b>LobSystem</b> with the same name already exists in the metadata store.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> and the <b>DataClass</b>, which contains the <b>Method</b> specified by the <b>parentStruct</b> element, already contains another <b>Method</b> that contains a <b>MethodInstance</b> with the same name as the specified <b>MethodInstance</b>.</li> <li>▪ The <b>rawValues</b> element specifies an <b>Association</b> and the <b>DataClass</b>, which contains the <b>Method</b> specified by the <b>parentStruct</b> element, already contains another <b>Method</b> that contains an <b>Association</b> with the same name as the specified <b>Association</b>.</li> <li>▪ On the server, if two threads are calling the same function at the same time, and the <b>rawValues</b> element of both threads specifies a <b>MetadataCatalog</b> with the same <b>Partition</b>, then one thread can cause the server to respond with a <b>DuplicateMetadataObjectExceptionState</b> exception.</li> <li>▪ The <b>MetadataObject</b> specified by the <b>parentStruct</b> element already contains another <b>MetadataObject</b> that has same name and type as the <b>MetadataObject</b> specified by the <b>rawValues</b> element.</li> </ul>
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>MetadataObject</b> specified by the <b>parentStruct</b> element already contains the implementation-specific maximum number of <b>MetadataObjects</b> that have the same type as the <b>MetadataObject</b> specified by the <b>rawValues</b> element.</li> <li>▪ The <b>rawValues</b> element specifies a <b>MethodInstance</b> that is of type <b>IdEnumerator</b>, <b>AccessChecker</b>, <b>Deleter</b>, <b>ChangedIdEnumerator</b>, <b>DeletedIdEnumerator</b>, or <b>BulkIdEnumerator</b>, but the <b>DataClass</b> containing the <b>Method</b> specified by the <b>parentStruct</b> element already has another <b>MethodInstance</b> of the same type.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The <b>MetadataObject</b> specified by the <b>parentStruct</b> is contained by an active <b>Entity</b> .<99>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>MetadataObject</b> specified by the <b>parentStruct</b> element does not exist in the</li> </ul>

Error complex type	Condition
	<p>metadata store.</p> <ul style="list-style-type: none"> <li>The <b>rawValues</b> element specifies a <b>MetadataObject</b> other than <b>Association</b> that references another <b>MetadataObject</b> that does not exist in the metadata store.</li> </ul>

If the **rawValues** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to creating the **MetadataObject** in the metadata store.

MetadataObject	Action
Identifier	Set the "OrdinalNumber" attribute of the created <b>Identifier</b> to 1 plus the maximum value of "OrdinalNumber" attributes of all the <b>Identifiers</b> contained by the <b>Entity</b> specified by the <b>parentStruct</b> element.
Parameter	Set the "OrdinalNumber" attribute of the created <b>Parameter</b> to 1 plus the maximum value of "OrdinalNumber" attributes of all the <b>Parameters</b> contained by the <b>Method</b> specified by the <b>parentStruct</b> element.
MethodInstance	<p>Set the <b>IsDefault</b> attributes of all other <b>MethodInstances</b> of type equal to the type of the created <b>MethodInstance</b> within the <b>DataClass</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> element to <b>false</b>, if the <b>IsDefault</b> attribute is <b>true</b> on the created <b>MethodInstance</b>. If the <b>IsDefault</b> attribute is <b>false</b> on the created <b>MethodInstance</b>, and the <b>DataClass</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> element does not contain any other <b>MethodInstance</b> that has the type equal to the type of the created <b>MethodInstance</b>, the protocol server MUST set the <b>IsDefault</b> attribute of the created <b>MethodInstance</b> to <b>true</b>.</p> <p>Copy the ACEs from the <b>Entity</b> that contains the <b>Method</b> specified by the <b>parentStruct</b> to the created <b>MethodInstance</b>.</p>
LobSystem	Copy the ACEs from the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> to the created <b>LobSystem</b> .
Model	Copy the ACEs from the <b>MetadataCatalog</b> specified by the <b>parentStruct</b> to the created <b>Model</b> .
Method	Copy the ACEs from the <b>Entity</b> specified by the <b>parentStruct</b> to the created <b>Method</b> .

### 3.1.4.93.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage</b>	The request WSDL message for the <b>MetadataObjectCreate</b> WSDL operation.
<b>BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectCreate</b>

Message	Description
	e WSDL operation.

### 3.1.4.93.1.1

#### BusinessDataCatalogSharedService\_MetadataObjectCreate\_InputMessage

The request WSDL message for the **MetadataObjectCreate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectCreate
```

The SOAP body contains the **MetadataObjectCreate** element.

### 3.1.4.93.1.2

#### BusinessDataCatalogSharedService\_MetadataObjectCreate\_OutputMessage

The response WSDL message for the **MetadataObjectCreate** WSDL operation.

The SOAP body contains the **MetadataObjectCreateResponse** element.

### 3.1.4.93.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>MetadataObjectCreate</b>	The input data for the <b>MetadataObjectCreate</b> WSDL operation.
<b>MetadataObjectCreateResponse</b>	The result data for the <b>MetadataObjectCreate</b> WSDL operation.

#### 3.1.4.93.2.1 MetadataObjectCreate

The **MetadataObjectCreate** element specifies the input data for the **MetadataObjectCreate** WSDL operation.

```
<xs:element name="MetadataObjectCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**rawValues:** Specifies the MetadataObject to create. The protocol client MUST specify values for all the elements in this complex type.

**parentStruct:** Specifies the MetadataObject in which to create the new MetadataObject in.

### 3.1.4.93.2.2 MetadataObjectCreateResponse

The **MetadataObjectCreateResponse** element specifies the result data for the **MetadataObjectCreate** WSDL operation.

```
<xs:element name="MetadataObjectCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**MetadataObjectCreateResult:** The created **MetadataObject**. [<100>](#) If the **MetadataObject** specified in the request is a **MetadataCatalog**, and another **MetadataCatalog** with the same **Partition** as the specified **MetadataCatalog** already exists in the metadata store, this operation **MUST** return the already existing **MetadataCatalog**.

### 3.1.4.93.3 Complex Types

None.

### 3.1.4.93.4 Simple Types

None.

### 3.1.4.93.5 Attributes

None.

### 3.1.4.93.6 Groups

None.

### 3.1.4.93.7 Attribute Groups

None.

### 3.1.4.94 MetadataObjectMergeXml

This operation is used to merge the Properties, localized names, and ACEs contained by the specified **MetadataModel** into the existing **MetadataObjects** in the metadata store. The **MetadataModel** **MUST** be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and **MUST** have one of the following elements as the root element:

- Action element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.3.
- ActionParameter element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.4.
- Association element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.7.
- AssociationGroup element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.8
- Entity element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.11.

- FilterDescriptor element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.12.
- Identifier element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.14.
- LobSystem element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.17.
- LobSystemInstance element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.18.
- Method element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.24.
- MethodInstance element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.25.
- Model element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.28
- Parameter element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.29.

The following is the WSDL port type specification of the **MetadataObjectMergeXml** WSDL operation.

```
<wsdl:operation name="MetadataObjectMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
```



```

message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService_MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage** request message, and the protocol server MUST respond with a

**BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The <b>mergedStruct</b> element specifies a TypeDescriptor.</li> <li>▪ The "Properties" value is specified in the <b>packageContents</b> element, the specified <b>MetadataModel</b> contains Properties for a <b>MetadataObject</b>, and the <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify that <b>MetadataObject</b>.</li> <li>▪ The "LocalizedNames" value is specified in the <b>packageContents</b> element, the specified <b>MetadataModel</b> contains localized names for a <b>MetadataObject</b>, and the security principal (2) in whose context the protocol client is operating is not authorized to modify that <b>MetadataObject</b>.</li> <li>▪ The "Permissions" value is specified in the <b>packageContents</b> element, the specified <b>MetadataModel</b> contains ACEs for a <b>MetadataObject</b>, and the security principal (2) in whose context the protocol client is operating is not authorized to set permissions for that <b>MetadataObject</b>.</li> </ul>
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that already contain the implementation-specific maximum number of <b>Properties</b> and the <b>packageContents</b> element has "Properties" set in its value.
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	One of the following conditions applies:

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that already contain the implementation-specific maximum number of localized names and the <b>packageContents</b> element has "LocalizedNames" in its value.</li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> which does not contain any ACE that specifies "SetPermissions" permission, and the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>MetadataCatalog</b></li> <li>▪ <b>Model</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	One or more <b>MetadataObjects</b> specified by the <b>MetadataModel</b> do not exist in the metadata store. <a href="#">&lt;101&gt;</a>
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> does not conform to <a href="#">[MS-BDCMFFS]</a> section 2.2. <a href="#">&lt;102&gt;</a></li> <li>▪ One or more <b>MetadataObjects</b> specified by the <b>MetadataModel</b> do not exist in the metadata store.</li> <li>▪ The "Model" value is specified in the <b>packageContents</b> element.</li> </ul>

### 3.1.4.94.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage</b>	The request WSDL message for the <b>MetadataObjectMergeXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage</b>	The response WSDL

Message	Description
<b>essage</b>	message for the <b>MetadataObjectMergeXml</b> WSDL operation.

### 3.1.4.94.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_InputMessage**

The request WSDL message for the **MetadataObjectMergeXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml
```

The SOAP body contains the **MetadataObjectMergeXml** element.

### 3.1.4.94.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectMergeXml\_OutputMessage**

The response WSDL message for the **MetadataObjectMergeXml** WSDL operation.

The SOAP body contains the **MetadataObjectMergeXmlResponse** element.

### 3.1.4.94.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>MetadataObjectMergeXml</b>	The input data for the <b>MetadataObjectMergeXml</b> WSDL operation.
<b>MetadataObjectMergeXmlResponse</b>	The result data for the <b>MetadataObjectMergeXml</b> WSDL operation.

#### 3.1.4.94.2.1 MetadataObjectMergeXml

The **MetadataObjectMergeXml** element specifies the input data for the **MetadataObjectMergeXml** WSDL operation.

```
<xs:element name="MetadataObjectMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packgeContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**xml:** The XML representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#) section 2.2.

**packgeContents:** Specifies the parts of the **MetadataModel** to be merged into the existing **MetadataObjects**. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST merge the Properties for the corresponding **MetadataObjects** for the specified Setting. During this merge, if a Property, that has the same name as the **Property** specified by the **MetadataModel**, already exists for the specified **MetadataObject**, then the protocol server MUST remove the already existing Property and then create a new **Property** that corresponds to the Property specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **MetadataObject**, then the protocol server MUST create a new Property that corresponds to the **Property** specified in the **MetadataModel**.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST merge the localized names for the corresponding **MetadataObjects** for the specified **Setting**. During this merge, if a localized name, that has the same LCID and **Setting** as the localized name specified by the **MetadataModel**, already exists for the specified **MetadataObject**, then the protocol server MUST remove the already existing localized name and then create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **MetadataObject** then the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified and **MetadataModel** specifies ACEs for a **MetadataObject** for the specified **Setting**, protocol server MUST remove any of the existing ACEs for the specified **MetadataObject** for the specified **Setting**, and then create new ACEs that correspond to the ACEs specified in the **MetadataModel** for the specified **Setting**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**parentStruct:** The **MetadataObject** that contains the **MetadataObject** specified by the **MetadataModel**.

**mergedStruct:** The **MetadataObject** into which to merge the **Properties**, localized names, and ACEs. The attributes of the specified **MetadataObject** MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
Action	ActionStruct (section <a href="#">2.2.4.5</a> )
ActionParameter	ActionParameterStruct (section <a href="#">2.2.4.4</a> )

Root element name	Complex type
<b>Association</b>	<b>AssociationStruct</b> (section <a href="#">2.2.4.23</a> )
<b>AssociationGroup</b>	<b>AssociationGroupStruct</b> (section <a href="#">2.2.4.21</a> )
<b>Entity</b>	<b>EntityStruct</b> (section <a href="#">2.2.4.31</a> )
<b>FilterDescriptor</b>	<b>FilterDescriptorStruct</b> (section <a href="#">2.2.4.34</a> )
<b>Identifier</b>	<b>IdentifierStruct</b> (section <a href="#">2.2.4.35</a> )
<b>LobSystem</b>	<b>LobSystemStruct</b> (section <a href="#">2.2.4.40</a> )
<b>LobSystemInstance</b>	<b>LobSystemInstanceStruct</b> (section <a href="#">2.2.4.39</a> )
<b>Method</b>	<b>MethodStruct</b> (section <a href="#">2.2.4.47</a> )
<b>MethodInstance</b>	<b>MethodInstanceStruct</b> (section <a href="#">2.2.4.45</a> )
<b>Model</b>	<b>ModelStruct</b> (section <a href="#">2.2.4.47</a> )
<b>Parameter</b>	<b>ParameterStruct</b> (section <a href="#">2.2.4.49</a> )

**settingId:** The Setting to merge the Properties, localized names and ACEs. If the value is NULL, then protocol server MUST use the default Setting while performing the operation.

**callerCultureLcid:** Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

### 3.1.4.94.2.2 MetadataObjectMergeXmlResponse

The **MetadataObjectMergeXmlResponse** element specifies the result data for the **MetadataObjectMergeXml** WSDL operation.

```
<xs:element name="MetadataObjectMergeXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="mergedStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**mergedStruct:** The MetadataObject into which the Properties, localized names, and ACEs were merged.

### 3.1.4.94.3 Complex Types

None.

### 3.1.4.94.4 Simple Types

None.

### 3.1.4.94.5 Attributes

None.

### 3.1.4.94.6 Groups

None.

### 3.1.4.94.7 Attribute Groups

None.

### 3.1.4.95 MetadataObjectReadXml

This operation is used to create MetadataObjects in the metadata store, optionally along with their Properties, localized names, and ACEs, contained by the specified MetadataModel. This operation creates **Properties**, localized names, and ACEs for default Setting. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- Action element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.3.
- ActionParameter element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.4.
- Association element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.7.
- AssociationGroup element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.8.
- Entity element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.16.
- Identifier element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.19.
- FilterDescriptor element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.17.
- LobSystem element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.23.
- LobSystemInstance element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.24.
- Method element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.30.
- MethodInstance element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.31.
- Parameter element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.37.

The following is the WSDL port type specification of the **MetadataObjectReadXml** WSDL operation.

```
<wsdl:operation name="MetadataObjectReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/MetadataObjectReadXml"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlResponse"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeException
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in the section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<p><b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>xml</b> element specifies an LobSystem and the <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an LobSystemInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>LobSystem</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an <b>Entity</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>LobSystem</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an <b>Identifier</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an <b>Action</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an ActionParameter and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> that contains the <b>Action</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies a <b>Method</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an AssociationGroup and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Entity</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies a MethodInstance and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies a Parameter and the security principal (2) in whose context the protocol client is operating is not authorized to</li> </ul>



Error complex type	Condition
	<p>modify the <b>Method</b> specified by the <b>parentStruct</b> element.</p> <ul style="list-style-type: none"> <li>▪ The <b>xml</b> element specifies a <b>FilterDescriptor</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> <li>▪ The <b>xml</b> element specifies an <b>Association</b> and the security principal (2) in whose context the protocol client is operating is not authorized to modify the <b>Method</b> specified by the <b>parentStruct</b> element.</li> </ul>
<p><b>ArgumentException</b> (section <a href="#">2.2.4.7</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ "Model" value is not specified in the <b>packageContents</b> element.</li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified <b>MetadataModel</b> contains an <b>LobSystem</b> with an associated Business Logic Module.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one <b>Parameter</b> with the <b>Direction</b> attribute set to "Return".</li> <li>▪ The specified <b>MetadataModel</b> contains an <b>Association</b> which references the same <b>Entity</b> more than once as a source of the <b>Association</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> that specifies <b>ReturnTypeDescriptor</b> that contains other <b>TypeDescriptors</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnTypeDescriptor</b> of this <b>MethodInstance</b> contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LobSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</li> <li>▪ The specified <b>MetadataModel</b> contains <b>MethodInstance</b>, and the <b>Method</b> for which this <b>MethodInstance</b> is being created does not have a <b>Parameter</b> whose <b>Direction</b> is "In" or "InOut" and the type of the this</li> </ul>

Error complex type	Condition
	<p><b>MethodInstance</b>, is one of the following values:</p> <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> </ul> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a <b>TimeStampFilter</b> and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> </ul>
<b>BdcExceptionState</b> (section <a href="#">2.2.4.25</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> represents a <b>Model</b> or a <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataModel</b> does not conform to the format specified in [MS-BDCMFFS].</li> <li>▪ One or more of the <b>TypeDescriptors</b> are specified in the <b>MetadataModel</b> have <b>DefaultValues</b>, but the <b>Method</b> that contains the <b>Parameter</b> that contains these <b>TypeDescriptors</b>, do not contain the <b>MethodInstance</b> specified by these <b>DefaultValues</b>.</li> </ul>
<b>DuplicateMetadataObjectExceptionState</b>	The specified <b>MetadataModel</b> represents an

Error complex type	Condition
(section <a href="#">2.2.4.30</a> )	<b>LobSystem</b> , and another <b>LobSystem</b> with the same name and different type already exists in the metadata store.
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>MetadataModel</b> contains a <b>MetadataObject</b> that contains more objects of a type than the implementation-specific maximum number of that type of objects. <b>MetadataObjects</b> , <b>Properties</b> , localized names, <a href="#">&lt;103&gt;</a> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an <b>Entity</b> contains more <b>Methods</b> than the implementation-specific maximum number of <b>Methods</b> allowed per <b>Entity</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that contain an ACE which specify <b>anonymous user</b> to have permissions other than "Execute", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObject</b> elements that does not contain an ACE that is set to "SetPermissions", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The creation of the <b>MetadataObjects</b> in the specified <b>MetadataModel</b> cannot be because <b>MetadataObjects</b> are missing in the metadata store.
<b>PackageFormatExceptionState</b> (section	One of the following conditions applies:

Error complex type	Condition
<a href="#">2.2.4.48</a> )	<ul style="list-style-type: none"> <li>One or more <b>Entities</b> in the specified <b>MetadataModel</b> already exist on a different <b>LobSystem</b>.</li> <li>The protocol server cannot find the Parameter that contains the ReturnPropertyDescriptor associated with one of the <b>MethodInstances</b> contained by the specified <b>MetadataModel</b>.</li> </ul>

### 3.1.4.95.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage</b>	The request WSDL message for the <b>MetadataObjectReadXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectReadXml</b> WSDL operation.

#### 3.1.4.95.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_InputMessage**

The request WSDL message for the **MetadataObjectReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml
```

The SOAP body contains the **MetadataObjectReadXml** element.

#### 3.1.4.95.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectReadXml\_OutputMessage**

The response WSDL message for the **MetadataObjectReadXml** WSDL operation.

The SOAP body contains the **MetadataObjectReadXmlResponse** element.

### 3.1.4.95.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>MetadataObjectReadXml</b>	The input data for the <b>MetadataObjectReadXml</b> WSDL operation.
<b>MetadataObjectReadXmlResponse</b>	The result data for the <b>MetadataObjectReadXml</b> WSDL operation.

### 3.1.4.95.2.1 MetadataObjectReadXml

The **MetadataObjectReadXml** element specifies the input data for the **MetadataObjectReadXml** WSDL operation.

```
<xs:element name="MetadataObjectReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST create the specified Properties for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified the protocol server MUST create the specified ACEs for the corresponding **MetadataObjects**.
- If the "Permissions" value is not specified the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**parentStruct:** Specifies the **MetadataObject** in which to create the new **MetadataObject**.

**readStruct:** The **MetadataObject** that corresponds to the root element of the specified **MetadataModel**. The attributes of the specified **MetadataObject** MUST be ignored by the protocol

server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root Element Name	Complex Type
<b>Action</b>	<b>ActionStruct</b> (section <a href="#">2.2.4.5</a> )
<b>ActionParameter</b>	<b>ActionParameterStruct</b> (section <a href="#">2.2.4.4</a> )
<b>Association</b>	<b>AssociationStruct</b> (section <a href="#">2.2.4.23</a> )
<b>AssociationGroup</b>	<b>AssociationGroupStruct</b> (section <a href="#">2.2.4.21</a> )
<b>Entity</b>	<b>EntityStruct</b> (section <a href="#">2.2.4.31</a> )
<b>FilterDescriptor</b>	<b>FilterDescriptorStruct</b> (section <a href="#">2.2.4.34</a> )
<b>Identifier</b>	<b>IdentifierStruct</b> (section <a href="#">2.2.4.35</a> )
<b>LobSystem</b>	<b>LobSystemStruct</b> (section <a href="#">2.2.4.40</a> )
<b>LobSystemInstance</b>	<b>LobSystemInstanceStruct</b> (section <a href="#">2.2.4.39</a> )
<b>Method</b>	<b>MethodStruct</b> (section <a href="#">2.2.4.46</a> )
<b>MethodInstance</b>	<b>MethodInstanceStruct</b> (section <a href="#">2.2.4.45</a> )
<b>Parameter</b>	<b>ParameterStruct</b> (section <a href="#">2.2.4.49</a> )

**callerCultureLcid:** Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

### 3.1.4.95.2.2 MetadataObjectReadXmlResponse

The **MetadataObjectReadXmlResponse** element specifies the result data for the **MetadataObjectReadXml** WSDL operation.

```
<xs:element name="MetadataObjectReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**errors:** List of implementation-specific error messages that occurred while performing this operation.

**readStruct:** The MetadataObject that specifies the created **MetadataObject**.

### 3.1.4.95.3 Complex Types

None.

### 3.1.4.95.4 Simple Types

None.

### 3.1.4.95.5 Attributes

None.

### 3.1.4.95.6 Groups

None.

### 3.1.4.95.7 Attribute Groups

None.

### 3.1.4.96 MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an XML representation of the following objects from the metadata store:

- MetadataObjects contained by the MetadataModel along with their Properties, localized names, and ACEs, if the "Model" value is specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.1.
- Localized names, **Properties**, and ACEs corresponding to **MetadataObjects** contained by the **MetadataModel**, if the "Model" value is not specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.

The **MetadataModel** used for this operation MUST contain the specified **MetadataObject**, and other **MetadataObjects** that are contained by the **MetadataModel**; it MUST NOT contain any other **MetadataObjects**.

If the specified **MetadataModel** contains LobSystems that the [security principal \(2\)](#) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those **LobSystems**, and MUST NOT contain other **MetadataObjects** contained by **MetadataObjects** that are not contained in the result for this reason.

The following is the WSDL port type specification of the **MetadataObjectWriteXml** WSDL operation.

```
<wsdl:operation name="MetadataObjectWriteXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlResponse"
    message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExcepi
onFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionS
tateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in the section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> and the <b>MetadataObject</b> is an <b>LobSystem</b> or an</li> </ul>



Error complex type	Condition
	<p><b>LobSystemInstance.</b></p> <ul style="list-style-type: none"> <li>The security principal (2) in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> and the "Permissions" flag is set in <b>packageContents</b> element.</li> </ul>
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	The "InlineProxies" value requires the "Model" value to be also specified for the <b>packageContents</b> element.
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	One or more <b>MetadataObjects</b> required for the operation does not exist. <a href="#">&lt;104&gt;</a>

### 3.1.4.96.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage</b>	The request WSDL message for the <b>MetadataObjectWriteXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage</b>	The response WSDL message for the <b>MetadataObjectWriteXml</b> WSDL operation.

#### 3.1.4.96.1.1

#### **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_InputMessage**

The request WSDL message for the **MetadataObjectWriteXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml
```

The SOAP body contains the **MetadataObjectWriteXml** element.

#### 3.1.4.96.1.2

#### **BusinessDataCatalogSharedService\_MetadataObjectWriteXml\_OutputMessage**

The response WSDL message for the **MetadataObjectWriteXml** WSDL operation.

The SOAP body contains the **MetadataObjectWriteXmlResponse** element.

### 3.1.4.96.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>MetadataObjectWriteXml</b>	The input data for the <b>MetadataObjectWriteXml</b> WSDL operation.
<b>MetadataObjectWriteXmlResponse</b>	The result data for the <b>MetadataObjectWriteXml</b> WSDL operation.

#### 3.1.4.96.2.1 MetadataObjectWriteXml

The **MetadataObjectWriteXml** element specifies the input data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject to be retrieved.

**packageContents:** Specifies what kind of data to retrieve for the specified **MetadataObject**. The protocol server MUST follow the following rules:

- If the "Properties" value is specified, the protocol server MUST retrieve the Properties for the corresponding **MetadataObjects** from the specified Setting and if the "Model" value is also specified, then the protocol server MUST also retrieve the **Properties** from the default **Setting** that do not have the same name as the **Properties** in the specified **Setting**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified MetadataModel.
- If the "LocalizedNames" value is specified, the protocol server MUST retrieve the localized names for the corresponding **MetadataObjects** from the specified **Setting** and if the "Model" value is also specified then the protocol server MUST also retrieve localized names from the default **Setting** that do not have the same LCID as the localized names in the specified **Setting**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST retrieve the ACEs for the corresponding **MetadataObjects** from the specified **Setting**. If there are no ACEs for the specified **Setting** for a **MetadataObject**, and if the "Model" value is also specified, then the protocol server MUST retrieve ACEs from the default **Setting** for that **MetadataObject**.

- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.
- If the "InlineProxies" value is not specified, the protocol server MUST ignore Business Logic Modules in the specified **MetadataModel**.

**settingId:** The **Setting** from which **Properties**, localized names, and ACEs are to be retrieved. If **Properties**, localized names, and ACEs are not retrieved, the protocol server MUST ignore the value of this element.

### 3.1.4.96.2.2 MetadataObjectWriteXmlResponse

The **MetadataObjectWriteXmlResponse** element specifies the result data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
        type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**MetadataObjectWriteXmlResult:** The XML that represents the MetadataObject represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [\[XML\]](#). The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table:

Complex type	Root element
<b>ActionParameterStruct</b> (section <a href="#">2.2.4.4</a> )	If the <b>packageContents</b> element is set to "Model", the ActionParameter element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.4. Otherwise, the <b>ActionParameter</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.4.
<b>ActionStruct</b> (section <a href="#">2.2.4.5</a> )	If the <b>packageContents</b> element is set to "Model", the Action element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.3. Otherwise, the <b>Action</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.3.
<b>AssociationGroupStruct</b> (section <a href="#">2.2.4.21</a> )	If the <b>packageContents</b> element is set to "Model", the AssociationGroup element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.8. Otherwise, the <b>AssociationGroup</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.8.
<b>AssociationStruct</b> (section <a href="#">2.2.4.23</a> )	If the <b>packageContents</b> element is set to "Model", the Association element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.7. Otherwise, the <b>Association</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.7.
<b>EntityStruct</b> (section <a href="#">2.2.4.31</a> )	If the <b>packageContents</b> element is set to "Model", the Entity element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.16. Otherwise, the <b>Entity</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.11.
<b>FilterDescriptorStruct</b> (section <a href="#">2.2.4.34</a> )	If the <b>packageContents</b> element is set to "Model", the FilterDescriptor element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.17. Otherwise, the <b>FilterDescriptor</b> element as specified in

Complex type	Root element
	<a href="#">[MS-BDCMFFS]</a> section 2.2.3.12.
<b>IdentifierStruct</b> (section <a href="#">2.2.4.35</a> )	If the <b>packageContents</b> element is set to "Model", the Identifier element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.19. Otherwise, the <b>Identifier</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.14.
<b>LobSystemStruct</b> (section <a href="#">2.2.4.40</a> )	If the "Model" value of <b>packageContents</b> is specified, the LobSystem element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.23. Otherwise, the <b>LobSystem</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.17.
<b>LobSystemInstanceStruct</b> (section <a href="#">2.2.4.39</a> )	If the "Model" value of <b>packageContents</b> is specified, the LobSystemInstance element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.24. Otherwise, the <b>LobSystemInstance</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.18.
<b>MethodStruct</b> (section <a href="#">2.2.4.46</a> )	If the "Model" value of <b>packageContents</b> is specified, the Method element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.30. Otherwise, the <b>Method</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.24.
<b>MethodInstanceStruct</b> (section <a href="#">2.2.4.45</a> )	If the "Model" value of <b>packageContents</b> is specified, the MethodInstance element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.31. Otherwise, the MethodInstance element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.25.
<b>ModelStruct</b> (section <a href="#">2.2.4.47</a> )	If the "Model" value of <b>packageContents</b> is specified, the Model element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.34. Otherwise, the <b>Model</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.28.
<b>ParameterStruct</b> (section <a href="#">2.2.4.49</a> )	If the "Model" value of <b>packageContents</b> is specified, the Parameter element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.37. Otherwise, the <b>Parameter</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.29.
<b>TypeDescriptorStruct</b> (section <a href="#">2.2.4.53</a> )	If the "Model" value of <b>packageContents</b> is specified, the TypeDescriptor element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.1.3.43. Otherwise, the <b>TypeDescriptor</b> element as specified in <a href="#">[MS-BDCMFFS]</a> section 2.2.3.34. <a href="#">&lt;105&gt;</a>

### 3.1.4.96.3 Complex Types

None.

### 3.1.4.96.4 Simple Types

None.

### 3.1.4.96.5 Attributes

None.

### 3.1.4.96.6 Groups

None.



```

edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the MetadataCatalog.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is not specified in the <b>packageContents</b> element.</li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> with invalid attributes. <a href="#">&lt;106&gt;</a></li> <li>▪ The "InlineProxies" value is specified for the <b>packageContents</b> element and the specified <b>MetadataModel</b> contains <b>LobSystem</b> with an associated Business Logic Module.</li> <li>▪ The specified <b>MetadataModel</b> contains a Method that contains more than one TimeStampFilter.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>Method</b> that contains more than one Parameter with direction "Return".</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.</li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>StreamAccessor</b> and the <b>TypeDescriptor</b> containing the <b>ReturnPropertyDescriptor</b> of this MethodInstance</li> </ul>

Error complex type	Condition
	<p>contains another <b>TypeDescriptor</b> under its parent <b>TypeDescriptor</b>, and the <b>LobSystem</b> containing the <b>Entity</b> which contains this <b>StreamAccessor</b> has type specified as "Database".</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains <b>MethodInstance</b>, and the <b>Method</b> for which this <b>MethodInstance</b> is being created does not have a Parameter whose <b>Direction</b> is "In" or "InOut" and the type of the this <b>MethodInstance</b>, is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ BinarySecurityDescriptorAccessor</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ BulkSpecificFinder</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Deleter</li> <li>▪ Disassociator</li> <li>▪ SpecificFinder</li> <li>▪ Updater</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The "Model" value is specified for the <b>packageContents</b> element, and the specified <b>MetadataModel</b> contains a <b>MethodInstance</b>, the <b>Method</b> containing this <b>MethodInstance</b> is not contain a TimeStampFilter and the type of this <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> </ul> </li> <li>▪ The specified <b>MetadataModel</b> contains an Association which specifies an Entity as a source</li> </ul>

Error complex type	Condition
	more than once.
<b>ArgumentOutOfRangeException</b> (section <a href="#">2.2.4.9</a> )	The MetadataObjectId of the specified MetadataCatalog is 0.
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The value of the <b>updateModel</b> element is FALSE, and there is already another <b>Model</b> with the same name as the <b>Model</b> contained by the <b>MetadataModel</b> contained by the specified <b>MetadataCatalog</b>.</li> <li>▪ The specified <b>MetadataModel</b> represents an <b>LobSystem</b>, but an <b>LobSystem</b> with the same name and different <b>SystemType</b> value already exists in the metadata store.</li> </ul>
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	The specified <b>MetadataModel</b> contains a <b>MetadataObject</b> that contains more objects of a type than the implementation-specific maximum number of that type of objects. <b>MetadataObjects</b> , <b>Properties</b> , localized names<107> and ACEs are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an <b>Entity</b> contains more <b>Methods</b> than the implementation-specific maximum number of <b>Methods</b> allowed per <b>Entity</b> .
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObjects</b> that contain an ACE which specify anonymous user to have permissions other than "Execute", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul> </li> <li>▪ The specified <b>MetadataModel</b> contains one or more <b>MetadataObject</b> elements that does not contain an ACE that is set to "SetPermissions", the <b>packageContents</b> element has "Permissions" in its value, and the specified <b>MetadataObject</b> is one of the following: <ul style="list-style-type: none"> <li>▪ <b>Association</b></li> </ul> </li> </ul>



Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ <b>Entity</b></li> <li>▪ <b>LobSystem</b></li> <li>▪ <b>Method</b></li> <li>▪ <b>MethodInstance</b></li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The value of the <b>updateModel</b> element is <b>true</b> and the specified <b>MetadataCatalog</b> does not contain the <b>Model</b> contained by the <b>MetadataModel</b> .
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified XML does not conform to the format specified in [MS-BDCMFFS].&lt;<a href="#">108</a>&gt;</li> <li>▪ One of the <b>Entities</b> contained by the <b>MetadataModel</b> has the same name, namespace and version as an <b>Entity</b> in the metadata store, but the names of the <b>LobSystems</b> that contain these <b>Entities</b> are not identical.</li> </ul>

### 3.1.4.97.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_ModelReadXml_InputMessage</b>	The request WSDL message for the <b>ModelReadXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ModelReadXml_OutputMessage</b>	The response WSDL message for the <b>ModelReadXml</b> WSDL operation.

#### 3.1.4.97.1.1 BusinessDataCatalogSharedService\_ModelReadXml\_InputMessage

The request WSDL message for the **ModelReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml
```

The SOAP body contains the **ModelReadXml** element.

#### 3.1.4.97.1.2 BusinessDataCatalogSharedService\_ModelReadXml\_OutputMessage

The response WSDL message for the **ModelReadXml** WSDL operation.

The SOAP body contains the **ModelReadXmlResponse** element.

### 3.1.4.97.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>ModelReadXml</b>	The input data for the <b>ModelReadXml</b> WSDL operation.
<b>ModelReadXmlResponse</b>	The result data for the <b>ModelReadXml</b> WSDL operation.

#### 3.1.4.97.2.1 ModelReadXml

The **ModelReadXml** element specifies the input data for the **ModelReadXml** WSDL operation.

```
<xs:element name="ModelReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#).

**packageContents:** Specifies what part of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding **MetadataObjects**. If the metadata store already contains a Property with the same name in the specified Setting for the **MetadataObject**, the Property in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**. If the metadata store already contains a localized name with the same LCID in the specified **Setting** for the **MetadataObject**, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.
- If the "Permissions" value is specified, the protocol server MUST delete ACEs in the metadata store for the corresponding **MetadataObjects** and create the specified ACEs for the corresponding **MetadataObjects**.

- If the "Permissions" value is not specified, the protocol server MUST ignore ACEs in the specified **MetadataModel**.

**applicationRegistryStruct:** The MetadataCatalog that contains the Model contained by the **MetadataModel**.

**callerCultureLcid:** Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

**updateModel:** Specifies if the **Model** contained by the **MetadataModel** already exists in the metadata store. If the value of this element is **true**, the protocol server MUST remove all Entity references from the **Model**. Then, the protocol server MUST create **Entity** references in the **Model** to all the **Entities** contained by the specified **MetadataModel**.

### 3.1.4.97.2.2 ModelReadXmlResponse

The **ModelReadXmlResponse** element specifies the result data for the **ModelReadXml** WSDL operation.

```
<xs:element name="ModelReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="tns5:ModelStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ModelReadXmlResult:** The Model from the metadata store that is corresponding to the specified MetadataModel.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

### 3.1.4.97.3 Complex Types

None.

### 3.1.4.97.4 Simple Types

None.

### 3.1.4.97.5 Attributes

None.

### 3.1.4.97.6 Groups

None.

### 3.1.4.97.7 Attribute Groups

None.

### 3.1.4.98 ReadSlicedXml

This operation is deprecated from the protocol and MUST NOT be called.

The following is the WSDL port type specification of the **ReadSlicedXml** WSDL operation.

```
<wsdl:operation name="ReadSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

### 3.1.4.98.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage</b>	The request WSDL message for the <b>ReadSlicedXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage</b>	The response WSDL message for the <b>ReadSlicedXml</b> WSDL operation.

#### 3.1.4.98.1.1 BusinessDataCatalogSharedService\_ReadSlicedXml\_InputMessage

The request WSDL message for the **ReadSlicedXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml
```

The SOAP body contains the **ReadSlicedXml** element.

#### 3.1.4.98.1.2 BusinessDataCatalogSharedService\_ReadSlicedXml\_OutputMessage

The response WSDL message for the **ReadSlicedXml** WSDL operation.

The SOAP body contains the **ReadSlicedXmlResponse** element.

### 3.1.4.98.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>ReadSlicedXml</b>	The input data for the <b>ReadSlicedXml</b> WSDL operation.
<b>ReadSlicedXmlResponse</b>	The result data for the <b>ReadSlicedXml</b> WSDL operation.

#### 3.1.4.98.2.1 ReadSlicedXml

The **ReadSlicedXml** element specifies the input data for the **ReadSlicedXml** WSDL operation.

```
<xs:element name="ReadSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
    <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
    <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**xml:** Deprecated.

**packageContents:** Deprecated.

**parentStruct:** Deprecated.

**readStruct:** Deprecated.

**callerCultureLcid:** Deprecated.

### 3.1.4.98.2.2 ReadSlicedXmlResponse

The **ReadSlicedXmlResponse** element specifies the result data for the **ReadSlicedXml** WSDL operation.

```

<xs:element name="ReadSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**errors:** Deprecated.

**readStruct:** Deprecated.

### 3.1.4.98.3 Complex Types

None.

### 3.1.4.98.4 Simple Types

None.

### 3.1.4.98.5 Attributes

None.

### 3.1.4.98.6 Groups

None.

### 3.1.4.98.7 Attribute Groups

None.

### 3.1.4.99 RemoveEntityFromModel

This operation is used to remove the reference to the specified Entity from the specified Model.

The following is the WSDL port type specification of the **RemoveEntityFromModel** WSDL operation.

```
<wsdl:operation name="RemoveEntityFromModel" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to remove the reference from the specified Model to the specified Entity.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>Entity</b> is not referenced by the specified <b>Model</b> .

### 3.1.4.99.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage</b>	The request WSDL message for the <b>RemoveEntityFromModel</b> WSDL operation.
<b>BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage</b>	The response WSDL message for the <b>RemoveEntityFromModel</b> WSDL operation.

#### 3.1.4.99.1.1

### **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_InputMessage**

The request WSDL message for the **RemoveEntityFromModel** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel
```

The SOAP body contains the **RemoveEntityFromModel** element.

#### 3.1.4.99.1.2

### **BusinessDataCatalogSharedService\_RemoveEntityFromModel\_OutputMessage**

The response WSDL message for the **RemoveEntityFromModel** WSDL operation.



The SOAP body contains the **RemoveEntityFromModelResponse** element.

### 3.1.4.99.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>RemoveEntityFromModel</b>	The input data for the <b>RemoveEntityFromModel</b> WSDL operation.
<b>RemoveEntityFromModelResponse</b>	The result data for the <b>RemoveEntityFromModel</b> WSDL operation.

#### 3.1.4.99.2.1 RemoveEntityFromModel

The **RemoveEntityFromModel** element specifies the input data for the **RemoveEntityFromModel** WSDL operation.

```
<xs:element name="RemoveEntityFromModel" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**modelStruct:** The Model.

**entityStruct:** The Entity.

#### 3.1.4.99.2.2 RemoveEntityFromModelResponse

The **RemoveEntityFromModelResponse** element specifies the result data for the **RemoveEntityFromModel** WSDL operation.

```
<xs:element name="RemoveEntityFromModelResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.99.3 Complex Types

None.

### 3.1.4.99.4 Simple Types

None.

### 3.1.4.99.5 Attributes

None.

### 3.1.4.99.6 Groups

None.

### 3.1.4.99.7 Attribute Groups

None.

### 3.1.4.100 RemoveLocalizedName

This operation is used to remove the localized name with the specified LCID from the specified MetadataObject.

The following is the WSDL port type specification of the **RemoveLocalizedName** WSDL operation.

```
<wsdl:operation name="RemoveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.
<b>InvalidOperationException</b> (section 2.2.4.38)	The localized name for the specified LCID does not exist in the specified <b>Setting</b> for the specified <b>MetadataObject</b> .

### 3.1.4.100.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage</b>	The request WSDL message for the <b>RemoveLocalizedName</b> WSDL operation.
<b>BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage</b>	The response WSDL message for the <b>RemoveLocalizedName</b> WSDL operation.

#### 3.1.4.100.1.1

### **BusinessDataCatalogSharedService\_RemoveLocalizedName\_InputMessage**

The request WSDL message for the **RemoveLocalizedName** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName

```

The SOAP body contains the **RemoveLocalizedName** element.

### 3.1.4.100.1.2

#### **BusinessDataCatalogSharedService\_RemoveLocalizedName\_OutputMessage**

The response WSDL message for the **RemoveLocalizedName** WSDL operation.

The SOAP body contains the **RemoveLocalizedNameResponse** element.

### 3.1.4.100.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>RemoveLocalizedName</b>	The input data for the <b>RemoveLocalizedName</b> WSDL operation.
<b>RemoveLocalizedNameResponse</b>	The result data for the <b>RemoveLocalizedName</b> WSDL operation.

#### 3.1.4.100.2.1 RemoveLocalizedName

The **RemoveLocalizedName** element specifies the input data for the **RemoveLocalizedName** WSDL operation.

```
<xs:element name="RemoveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

**lcid:** The LCID of the localized name to be removed.

**settingId:** The Setting to remove the localized name from.

#### 3.1.4.100.2.2 RemoveLocalizedNameResponse

The **RemoveLocalizedNameResponse** element specifies the result data for the **RemoveLocalizedName** WSDL operation.

```
<xs:element name="RemoveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.100.3 Complex Types

None.

### 3.1.4.100.4 Simple Types

None.

### 3.1.4.100.5 Attributes

None.

### 3.1.4.100.6 Groups

None.

### 3.1.4.100.7 Attribute Groups

None.

### 3.1.4.101 RemoveProperty

This operation is used to remove the specified Property from the specified MetadataObject.

The following is the WSDL port type specification of the **RemoveProperty** WSDL operation.

```
<wsdl:operation name="RemoveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemoveProperty"
    message="tns6:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemovePropertyResponse"
    message="tns6:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMes
    sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_Faul
    tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemovePropertyArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFaul
    t_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMes
    sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>ArgumentException</b> (section 2.2.4.7)	The <b>name</b> element is empty or NULL.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.101.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_RemoveProperty_InputMessage</b>	The request WSDL message for the <b>RemoveProperty</b> WSDL operation.
<b>BusinessDataCatalogSharedService_RemoveProperty_OutputMessage</b>	The response WSDL message for the <b>RemoveProperty</b> WSDL operation.

#### 3.1.4.101.1.1

### **BusinessDataCatalogSharedService\_RemoveProperty\_InputMessage**

The request WSDL message for the **RemoveProperty** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty
```

The SOAP body contains the **RemoveProperty** element.

### 3.1.4.101.1.2

#### **BusinessDataCatalogSharedService\_RemoveProperty\_OutputMessage**

The response WSDL message for the **RemoveProperty** WSDL operation.

The SOAP body contains the **RemovePropertyResponse** element.

### 3.1.4.101.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>RemoveProperty</b>	The input data for the <b>RemoveProperty</b> WSDL operation.
<b>RemovePropertyResponse</b>	The result data for the <b>RemoveProperty</b> WSDL operation.

#### 3.1.4.101.2.1 RemoveProperty

The **RemoveProperty** element specifies the input data for the **RemoveProperty** WSDL operation.

```
<xs:element name="RemoveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"  
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>  
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>  
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

**name:** The name of the **Property** to be deleted.

**settingId:** The Setting from which to delete the **Property**.

#### 3.1.4.101.2.2 RemovePropertyResponse

The **RemovePropertyResponse** element specifies the result data for the **RemoveProperty** WSDL operation.

```
<xs:element name="RemovePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:complexType>  
    <xs:sequence/>  
  </xs:complexType>  
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

### 3.1.4.101.3 Complex Types

None.

### 3.1.4.101.4 Simple Types

None.

### 3.1.4.101.5 Attributes

None.

### 3.1.4.101.6 Groups

None.

### 3.1.4.101.7 Attribute Groups

None.

### 3.1.4.102 SaveLocalizedName

This operation is used to add or replace a localized name for the specified **MetadataObject**. If a localized name with the same LCID as the specified LCID already exists for the specified **MetadataObject**, the protocol server **MUST** replace the localized name of the specified **MetadataObject** with the specified localized name.

The following is the WSDL port type specification of the **SaveLocalizedName** WSDL operation.

```
<wsdl:operation name="SaveLocalizedName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedName"
    message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameResponse"
    message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_Fault
    Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_F
    aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
```



```

message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified <b>Setting</b> .
<b>InvalidOperationException</b> (section 2.2.4.38)	The specified <b>MetadataObject</b> already contains the implementation-specific maximum number of localized names.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.102.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage</b>	The request WSDL message for the <b>SaveLocalizedName</b> WSDL operation.
<b>BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage</b>	The response WSDL message for the

Message	Description
	<b>SaveLocalizedName</b> WSDL operation.

### 3.1.4.102.1.1

#### **BusinessDataCatalogSharedService\_SaveLocalizedName\_InputMessage**

The request WSDL message for the **SaveLocalizedName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName
```

The SOAP body contains the **SaveLocalizedName** element.

### 3.1.4.102.1.2

#### **BusinessDataCatalogSharedService\_SaveLocalizedName\_OutputMessage**

The response WSDL message for the **SaveLocalizedName** WSDL operation.

The SOAP body contains the **SaveLocalizedNameResponse** element.

### 3.1.4.102.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SaveLocalizedName</b>	The input data for the <b>SaveLocalizedName</b> WSDL operation.
<b>SaveLocalizedNameResponse</b>	The result data for the <b>SaveLocalizedName</b> WSDL operation.

#### 3.1.4.102.2.1 SaveLocalizedName

The **SaveLocalizedName** element specifies the input data for the **SaveLocalizedName** WSDL operation.

```
<xs:element name="SaveLocalizedName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

**lcid:** The LCID of the localized name to be saved.

**name:** The localized name of the **MetadataObject**.

**settingId:** The Setting to write the localized name to.

### 3.1.4.102.2 SaveLocalizedNameResponse

The **SaveLocalizedNameResponse** element specifies the result data for the **SaveLocalizedName** WSDL operation.

```
<xs:element name="SaveLocalizedNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.102.3 Complex Types

None.

### 3.1.4.102.4 Simple Types

None.

### 3.1.4.102.5 Attributes

None.

### 3.1.4.102.6 Groups

None.

### 3.1.4.102.7 Attribute Groups

None.

### 3.1.4.103 SaveProperty

This operation is used to add or replace a **Property** for the specified **MetadataObject**. If a **Property** with the same name as the specified **Property** already exists for the specified **MetadataObject**, the protocol server MUST replace the **Property** of the **MetadataObject** with the specified **Property**.

The following is the WSDL port type specification of the **SaveProperty** WSDL operation.

```
<wsdl:operation name="SaveProperty" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
    message="tns6:BusinessDataCatalogSharedService_SaveProperty_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse"/>
```

```

message="tns6:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultM
essage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_Fa
ultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_Fault
Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SaveProperty\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client operates is not authorized to modify the specified <b>MetadataObject</b> in the specified Setting.
<b>ExceededMetadataObjectLimitExceptionState</b> (section 2.2.4.32)	The specified <b>MetadataObject</b> already contains the implementation-specific maximum number of Properties.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>MetadataObject</b> does not exist.

### 3.1.4.103.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_SaveProperty_InputMessage</b>	The request WSDL message for the <b>SaveProperty</b> WSDL operation.
<b>BusinessDataCatalogSharedService_SaveProperty_OutputMessage</b>	The response WSDL message for the <b>SaveProperty</b> WSDL operation.

#### 3.1.4.103.1.1 BusinessDataCatalogSharedService\_SaveProperty\_InputMessage

The request WSDL message for the **SaveProperty** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty
```

The SOAP body contains the **SaveProperty** element.

#### 3.1.4.103.1.2 BusinessDataCatalogSharedService\_SaveProperty\_OutputMessage

The response WSDL message for the **SaveProperty** WSDL operation.

The SOAP body contains the **SavePropertyResponse** element.

### 3.1.4.103.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SaveProperty</b>	The input data for the <b>SaveProperty</b> WSDL operation.
<b>SavePropertyResponse</b>	The result data for the <b>SaveProperty</b> WSDL operation.

#### 3.1.4.103.2.1 SaveProperty

The **SaveProperty** element specifies the input data for the **SaveProperty** WSDL operation.

```
<xs:element name="SaveProperty" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="tns5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject.

**propertyStruct:** The **Property** to be saved.

### 3.1.4.103.2 SavePropertyResponse

The **SavePropertyResponse** element specifies the result data for the **SaveProperty** WSDL operation.

```
<xs:element name="SavePropertyResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.103.3 Complex Types

None.

### 3.1.4.103.4 Simple Types

None.

### 3.1.4.103.5 Attributes

None.

### 3.1.4.103.6 Groups

None.

### 3.1.4.103.7 Attribute Groups

None.

### 3.1.4.104 SetAccessControlEntries

This operation is used to set an access control list (ACL) to the specified MetadataObject. The protocol server MUST delete all ACEs of the specified **MetadataObject** for the specified Setting, and then adds the specified ACEs to the specified **MetadataObject**.

The following is the WSDL port type specification of the **SetAccessControlEntries** WSDL operation.

```
<wsdl:operation name="SetAccessControlEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries"
    message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/SetAccessControlEntriesResponse"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExce
ptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault
_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExcept
ionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionState
Fault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with at exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to set permissions on the specified <b>MetadataObject</b> .
<b>ArgumentOutOfRangeException</b> (section 2.2.4.9)	The MetadataObjectId for the specified <b>MetadataObject</b> is set to zero.
<b>InvalidOperationException</b> (section 2.2.4.38)	One of the following conditions applies:

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ At least one of the specified ACEs contains an invalid value for <b>principalName</b> element.</li> <li>▪ The specified ACEs do not contain an ACE with "SetPermissions" permission, or contain an ACE that specify anonymous user to have permissions other than "Execute".</li> </ul>

### 3.1.4.104.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage</b>	The request WSDL message for the <b>SetAccessControlEntries</b> WSDL operation.
<b>BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage</b>	The response WSDL message for the <b>SetAccessControlEntries</b> WSDL operation.

#### 3.1.4.104.1.1

### **BusinessDataCatalogSharedService\_SetAccessControlEntries\_InputMessage**

The request WSDL message for the **SetAccessControlEntries** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries
```

The SOAP body contains the **SetAccessControlEntries** element.

#### 3.1.4.104.1.2

### **BusinessDataCatalogSharedService\_SetAccessControlEntries\_OutputMessage**

The response WSDL message for the **SetAccessControlEntries** WSDL operation.

The SOAP body contains the **SetAccessControlEntriesResponse** element.

### 3.1.4.104.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SetAccessControlEntries</b>	The input data for the <b>SetAccessControlEntries</b> WSDL



Element	Description
	operation.
<b>SetAccessControlEntriesResponse</b>	The result data for the <b>SetAccessControlEntries</b> WSDL operation.

### 3.1.4.104.2.1 SetAccessControlEntries

The **SetAccessControlEntries** element specifies the input data for the **SetAccessControlEntries** WSDL operation.

```
<xs:element name="SetAccessControlEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="tns5:ArrayOfAccessControlEntryStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject. The **MetadataObject** MUST be of one of the following types:

- MetadataCatalog
- Model
- LobSystem
- Entity
- Method
- MethodInstance

**accessControlEntries:** The ACEs.

**settingId:** The Setting to write the ACEs to.

### 3.1.4.104.2.2 SetAccessControlEntriesResponse

The **SetAccessControlEntriesResponse** element specifies the result data for the **SetAccessControlEntries** WSDL operation.

```
<xs:element name="SetAccessControlEntriesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.104.3 Complex Types

None.

### 3.1.4.104.4 Simple Types

None.

### 3.1.4.104.5 Attributes

None.

### 3.1.4.104.6 Groups

None.

### 3.1.4.104.7 Attribute Groups

None.

### 3.1.4.105 SetDefaultActionForEntity

This operation is used to set the default Action for the specified Entity.

The following is the WSDL port type specification of the **SetDefaultActionForEntity** WSDL operation.

```
<wsdl:operation name="SetDefaultActionForEntity"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeEx
ceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
```

```

message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>Entity</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.3)	The specified <b>Entity</b> does not exist or does not contain an <b>Action</b> with the specified name.

### 3.1.4.105.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage</b>	The request WSDL message for the <b>SetDefaultActionForEntity</b> WSDL operation.
<b>BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage</b>	The response WSDL message for the <b>SetDefaultActionForEntity</b> WSDL operation.

#### 3.1.4.105.1.1

### **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_InputMessage**

The request WSDL message for the **SetDefaultActionForEntity** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity
```

The SOAP body contains the **SetDefaultActionForEntity** element.

### 3.1.4.105.1.2

#### **BusinessDataCatalogSharedService\_SetDefaultActionForEntity\_OutputMessage**

The response WSDL message for the **SetDefaultActionForEntity** WSDL operation.

The SOAP body contains the **SetDefaultActionForEntityResponse** element.

### 3.1.4.105.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SetDefaultActionForEntity</b>	The input data for the <b>SetDefaultActionForEntity</b> WSDL operation.
<b>SetDefaultActionForEntityResponse</b>	The result data for the <b>SetDefaultActionForEntity</b> WSDL operation.

#### 3.1.4.105.2.1 SetDefaultActionForEntity

The **SetDefaultActionForEntity** element specifies the input data for the **SetDefaultActionForEntity** WSDL operation.

```
<xs:element name="SetDefaultActionForEntity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
      <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**entityStruct:** The Entity to which a default Action will be set.

**actionName:** The name of the Action to be set as default Action to the specified Entity.

**partitionId:** The empty GUID.

#### 3.1.4.105.2.2 SetDefaultActionForEntityResponse

The **SetDefaultActionForEntityResponse** element specifies the result data for the **SetDefaultActionForEntity** WSDL operation.

```

<xs:element name="SetDefaultActionForEntityResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

### 3.1.4.105.3 Complex Types

None.

### 3.1.4.105.4 Simple Types

None.

### 3.1.4.105.5 Attributes

None.

### 3.1.4.105.6 Groups

None.

### 3.1.4.105.7 Attribute Groups

None.

### 3.1.4.106 SetDefaultValuesForTypeDescriptor

This operation is used to set the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the **typeDescriptorId** element of the specified DefaultValueStruct (section [2.2.4.29](#)) complex type for the MethodInstance with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct** (section [2.2.4.29](#)).

The following is the WSDL port type specification of the **SetDefaultValuesForTypeDescriptor** WSDL operation.

```

<wsdl:operation name="SetDefaultValuesForTypeDescriptor"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor"
    message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse"
    message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutO
fRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcException
StateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOpera
tionExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExce
ptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter containing the specified TypeDescriptor.
<b>ArgumentException</b> (section 2.2.4.7)	The specified DefaultValue is invalid.
<b>ExceededMetadataObjectLimitExceptionState</b> (section 2.2.4.32)	The specified <b>TypeDescriptor</b> already contains the implementation-specific maximum number of <b>DefaultValues</b> .
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	The specified <b>TypeDescriptor</b> does not exist.

### 3.1.4.106.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage</b>	The request WSDL message for the <b>SetDefaultValuesForTypeDescriptor</b> WSDL operation.
<b>BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage</b>	The response WSDL message for the <b>SetDefaultValuesForTypeDescriptor</b> WSDL operation.

#### 3.1.4.106.1.1

##### **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_InputMessage**

The request WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor`

The SOAP body contains the **SetDefaultValuesForTypeDescriptor** element.

#### 3.1.4.106.1.2

##### **BusinessDataCatalogSharedService\_SetDefaultValuesForTypeDescriptor\_OutputMessage**

The response WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP body contains the **SetDefaultValuesForTypeDescriptorResponse** element.

### 3.1.4.106.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SetDefaultValuesForTypeDescriptor</b>	The input data for the <b>SetDefaultValuesForTypeDescriptor</b> WSDL operation.
<b>SetDefaultValuesForTypeDescriptorResponse</b>	The result data for the <b>SetDefaultValuesForTypeDescriptor</b> WSDL operation.

### 3.1.4.106.2.1 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** element specifies the input data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="SetDefaultValuesForTypeDescriptor"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="defaultValueStruct" nillable="true" type="tns5:DefaultValueStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**defaultValueStruct:** The DefaultValue to be set for the specified TypeDescriptor .

**partitionId:** An empty GUID.

### 3.1.4.106.2.2 SetDefaultValuesForTypeDescriptorResponse

The **SetDefaultValuesForTypeDescriptorResponse** element specifies the result data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="SetDefaultValuesForTypeDescriptorResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.106.3 Complex Types

None.

### 3.1.4.106.4 Simple Types

None.

### 3.1.4.106.5 Attributes

None.

### 3.1.4.106.6 Groups

None.

### 3.1.4.106.7 Attribute Groups

None.



### 3.1.4.107 SetLobSystemDataByLobSystemId

This operation is deprecated from the protocol and MUST NOT be called.

The following is the WSDL port type specification of the **SetLobSystemDataByLobSystemId** WSDL operation.

```
<wsdl:operation name="SetLobSystemDataByLobSystemId"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdResponse"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

#### 3.1.4.107.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage</b>	The request WSDL message for the <b>SetLobSystemDataByLobSystemId</b> WSDL operation.
<b>BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage</b>	The response WSDL message for the <b>SetLobSystemDataByLobSystemId</b> WSDL operation.

#### 3.1.4.107.1.1

##### **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_InputMessage**

The request WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId
```

The SOAP body contains the **SetLobSystemDataByLobSystemId** element.

#### 3.1.4.107.1.2

##### **BusinessDataCatalogSharedService\_SetLobSystemDataByLobSystemId\_OutputMessage**

The response WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

The SOAP body contains the **SetLobSystemDataByLobSystemIdResponse** element.

#### 3.1.4.107.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>SetLobSystemDataByLobSystemId</b>	The input data for the <b>SetLobSystemDataByLobSystemId</b> WSDL operation.
<b>SetLobSystemDataByLobSystemIdResponse</b>	The result data for the <b>SetLobSystemDataByLobSystemId</b> WSDL operation.

#### 3.1.4.107.2.1 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** element specifies the input data for the **SetLobSystemDataByLobSystemId** WSDL operation.

```
<xs:element name="SetLobSystemDataByLobSystemId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
    <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="proxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
    <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**lobSystemId:** Deprecated.

**proxyGenerationResult:** Deprecated.

**partitionId:** Deprecated.

### 3.1.4.107.2.2 SetLobSystemDataByLobSystemIdResponse

The **SetLobSystemDataByLobSystemIdResponse** element specifies the result data for the **SetLobSystemDataByLobSystemId** WSDL operation.

```

<xs:element name="SetLobSystemDataByLobSystemIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

### 3.1.4.107.3 Complex Types

None.

### 3.1.4.107.4 Simple Types

None.

### 3.1.4.107.5 Attributes

None.

### 3.1.4.107.6 Groups

None.

### 3.1.4.107.7 Attribute Groups

None.

### 3.1.4.108 TypeDescriptorCreate

This operation is used to create a TypeDescriptor in the metadata store.

The following is the WSDL port type specification of the **TypeDescriptorCreate** WSDL operation.

```
<wsdl:operation name="TypeDescriptorCreate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter specified by <b>parameterStruct</b> element.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>TypeDescriptor</b> specified by <b>rawValues</b> element and the <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element are contained by different <b>Parameters</b>.</li> <li>▪ The data type referenced by the <b>typeName</b> element of the specified <b>TypeDescriptor</b> is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type.</li> <li>▪ The <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element is NULL and the <b>Parameter</b> has another root <b>TypeDescriptor</b>.</li> <li>▪ The <b>TypeDescriptor</b> and the parent <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element have the <b>IsCollection</b> flag set.</li> <li>▪ The <b>TypeDescriptor</b> is associated with a <b>FilterDescriptor</b> and the <b>FilterDescriptor</b> is not contained by the Method that contains the <b>Parameter</b> specified by <b>parameterStruct</b> element.</li> <li>▪ The <b>TypeDescriptor</b> specified by <b>parentTypeDescriptorStruct</b> element has "IsCollection" flag set and already contains another <b>TypeDescriptor</b>.</li> <li>▪ The <b>TypeDescriptor</b> is has "read-only" flag set, and the <b>Direction</b> attribute of the <b>Parameter</b> is set to "In".</li> </ul>
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	The <b>TypeDescriptor</b> specified by the <b>parentStruct</b> element already contains another <b>TypeDescriptor</b> that has the same name.
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The <b>TypeDescriptor</b> specified by the <b>parentTypeDescriptorStruct</b> element already contains an implementation-specific maximum number of <b>TypeDescriptors</b>.</li> <li>▪ The metadata store already contains an implementation-specific maximum number of <b>TypeDescriptors</b> associated with the <b>FilterDescriptor</b> referenced by the specified</li> </ul>

Error complex type	Condition
	<b>TypeDescriptor.</b>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	The <b>Parameter</b> specified by the <b>parameterStruct</b> element is contained by an active Entity.<109>

### 3.1.4.108.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage</b>	The request WSDL message for the <b>TypeDescriptorCreate</b> WSDL operation.
<b>BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage</b>	The response WSDL message for the <b>TypeDescriptorCreate</b> WSDL operation.

#### 3.1.4.108.1.1

#### **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_InputMessage**

The request WSDL message for the **TypeDescriptorCreate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate
```

The SOAP body contains the **TypeDescriptorCreate** element.

#### 3.1.4.108.1.2

#### **BusinessDataCatalogSharedService\_TypeDescriptorCreate\_OutputMessage**

The response WSDL message for the **TypeDescriptorCreate** WSDL operation.

The SOAP body contains the **TypeDescriptorCreateResponse** element.

### 3.1.4.108.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>TypeDescriptorCreate</b>	The input data for the <b>TypeDescriptorCreate</b> WSDL operation.
<b>TypeDescriptorCreateResponse</b>	The result data for the <b>TypeDescriptorCreate</b> WSDL operation.

### 3.1.4.108.2.1 TypeDescriptorCreate

The **TypeDescriptorCreate** element specifies the input data for the **TypeDescriptorCreate** WSDL operation.

```
<xs:element name="TypeDescriptorCreate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns5:TypeDescriptorStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**rawValues:** The TypeDescriptor to create. The protocol client MUST specify values for all the elements in this complex type.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** to create. If the **TypeDescriptor** to be created is a root TypeDescriptor, then the value of this element MUST be NULL.

**parameterStruct:** The Parameter containing the created TypeDescriptor.

### 3.1.4.108.2.2 TypeDescriptorCreateResponse

The **TypeDescriptorCreateResponse** element specifies the result data for the **TypeDescriptorCreate** WSDL operation.

```
<xs:element name="TypeDescriptorCreateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**TypeDescriptorCreateResult:** The created TypeDescriptor.

### 3.1.4.108.3 Complex Types

None.

### 3.1.4.108.4 Simple Types

None.

### 3.1.4.108.5 Attributes

None.

### 3.1.4.108.6 Groups

None.

### 3.1.4.108.7 Attribute Groups

None.

### 3.1.4.109 TypeDescriptorMergeXml

This operation is used to merge the Properties and localized names contained by the TypeDescriptors in the specified MetadataModel into an existing **TypeDescriptor** in the metadata store. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have as a root element the **TypeDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.2.3.34.

The following is the WSDL port type specification of the **TypeDescriptorMergeXml** WSDL operation.

```
<wsdl:operation name="TypeDescriptorMergeXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
  </wsdl:fault
</wsdl:operation>
```



```

message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in **Complex Types** (section 2.2.4). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section 2.2.4.3)	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to edit the Method containing the specified <b>Parameter</b> .
<b>ArgumentException</b> (section 2.2.4.7)	The "Model" value is specified in the <b>packageContents</b> element.
<b>ExceededMetadataObjectLimitExceptionState</b> (section 2.2.4.32)	The specified <b>MetadataModel</b> contains one or more <b>TypeDescriptors</b> that already contain the implementation-specific maximum number of <b>Properties</b> and the <b>packageContents</b> element has "Properties" set in its value.
<b>InvalidOperationException</b> (section 2.2.4.38)	The specified <b>MetadataModel</b> specifies one or more <b>TypeDescriptors</b> that already contain the implementation-specific maximum number of localized names and the <b>packageContents</b> element has "LocalizedNames" in its value.
<b>MetadataObjectNotFoundExceptionState</b> (section 2.2.4.43)	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified <b>Parameter</b> or the specified <b>TypeDescriptor</b> could not be found.</li> <li>▪ The specified <b>TypeDescriptor</b> could not be found.</li> </ul>
<b>PackageFormatExceptionState</b> (section 2.2.4.48)	The <b>TypeDescriptor</b> specified in the <b>MetadataModel</b> does not exist in the specified <b>TypeDescriptor</b> or the specified <b>Parameter</b> if a <b>TypeDescriptor</b> is not specified.

### 3.1.4.109.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage</b>	The request WSDL message for the <b>TypeDescriptorMergeXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage</b>	The response WSDL message for the <b>TypeDescriptorMergeXml</b> WSDL operation.

#### 3.1.4.109.1.1

##### **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_InputMessage**

The request WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml>

The SOAP body contains the **TypeDescriptorMergeXml** element.

#### 3.1.4.109.1.2

##### **BusinessDataCatalogSharedService\_TypeDescriptorMergeXml\_OutputMessage**

The response WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

The SOAP body contains the **TypeDescriptorMergeXmlResponse** element.

### 3.1.4.109.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>TypeDescriptorMergeXml</b>	The input data for the <b>TypeDescriptorMergeXml</b> WSDL operation.
<b>TypeDescriptorMergeXmlResponse</b>	The result data for the <b>TypeDescriptorMergeXml</b> WSDL operation.

#### 3.1.4.109.2.1 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** element specifies the input data for the **TypeDescriptorMergeXml** WSDL operation.

```

<xs:element name="TypeDescriptorMergeXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**xml:** The XML representation of the **TypeDescriptor** that conforms to [\[MS-BDCMFFS\]](#) section 2.2.3.34.

**packageContents:** Specifies the parts of the **TypeDescriptors** to be merged into the existing **TypeDescriptors**. The protocol server MUST follow the following rules:

- If the "Properties" value is specified, the protocol server MUST merge the **Properties** for the corresponding **TypeDescriptors** for the specified **Setting**. During this merge, if a **Property**, that has the same name as the **Property** specified in the **MetadataModel** already exists for the specified **TypeDescriptor**, then the protocol server MUST remove the already existing **Property** and then create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**. If a **Property** with the specified name does not exist for the specified **TypeDescriptor**, then the protocol server MUST create a new **Property** that corresponds to the **Property** specified in the **MetadataModel**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST merge the localized names for the corresponding **TypeDescriptor** for the specified **Setting**. During this merge, if a localized name, that has the same LCID and **Setting** as the localized name specified by the **MetadataModel**, already exists for the specified **TypeDescriptor**, then the protocol server MUST remove the already existing localized name and then create a new localized name that corresponds to the localized name specified in the **MetadataModel**. If a localized name with the specified LCID and **Setting** does not exist for the specified **TypeDescriptor** then the protocol server MUST create a new localized name that corresponds to the localized name specified in the **MetadataModel**.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

**parameterStruct:** The **Parameter** containing the **TypeDescriptor** that is updated.

**parentTypeDescriptorStruct:** The **TypeDescriptor** that contains the **TypeDescriptor** specified by the XML. This **TypeDescriptor** MUST be NULL if the **TypeDescriptor** specified by the XML is a root **TypeDescriptor**.

**settingId:** The **Setting** to merge the **Properties** and localized names. If the value is NULL, then protocol server MUST use the default **Setting** while performing the operation.

**callerCultureLcid:** This value MUST be ignored by the protocol server.

### 3.1.4.109.2 TypeDescriptorMergeXmlResponse

The **TypeDescriptorMergeXmlResponse** element specifies the result data for the **TypeDescriptorMergeXml** WSDL operation.

```
<xs:element name="TypeDescriptorMergeXmlResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="TypeDescriptorMergeXmlResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**TypeDescriptorMergeXmlResult:** The TypeDescriptor into which the Properties and localized names were merged.

**errors:** List of implementation-specific error messages that occurred while performing this operation.

### 3.1.4.109.3 Complex Types

None.

### 3.1.4.109.4 Simple Types

None.

### 3.1.4.109.5 Attributes

None.

### 3.1.4.109.6 Groups

None.

### 3.1.4.109.7 Attribute Groups

None.

### 3.1.4.110 TypeDescriptorReadXml

This operation is used to create the TypeDescriptors contained by the specified MetadataModel, along with their Properties and localized names, in the metadata store. The **MetadataModel** MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have as a root element the **TypeDescriptor** element as specified in [\[MS-BDCMFFS\]](#) section 2.1.3.43.

The following is the WSDL port type specification of the **TypeDescriptorReadXml** WSDL operation.

```
<wsdl:operation name="TypeDescriptorReadXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFau
lt_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionF
ault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_F
aultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptio
nFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStaeFa
ult_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSt
ateFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol

server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the Method containing the specified Parameter.
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The "Model" value is not specified in the <b>packageContents</b> element.</li> <li>▪ The data type referenced by a <b>TypeDescriptor</b> contained by the <b>MetadataModel</b> is invalid. This happens when the identifier of the data type is not in the correct format, or the protocol server cannot access or load the specified data type.</li> <li>▪ The <b>MetadataModel</b> contains a <b>TypeDescriptor</b> that has "IsCollection" flag set and contains another <b>TypeDescriptor</b> that has "IsCollection" flag set.</li> <li>▪ The specified <b>TypeDescriptor</b> has "IsCollection" flag set and the <b>TypeDescriptor</b> which correspond to the specified <b>MetadataModel</b> also has "IsCollection" flag set.</li> <li>▪ The specified <b>TypeDescriptor</b> has "IsCollection" flag set and already contains a <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>TypeDescriptor</b> is NULL and the specified <b>Parameter</b> already has a root <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>TypeDescriptor</b> is not contained by the specified <b>Parameter</b>.</li> <li>▪ The specified <b>MetadataModel</b> contains a <b>TypeDescriptor</b> that has "ReadOnly" flag set and the specified <b>Parameter</b> has direction "In".</li> </ul>
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	The specified <b>TypeDescriptor</b> already contains another <b>TypeDescriptor</b> with the same name as the <b>TypeDescriptor</b> which corresponds to the <b>MetadataModel</b> .
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataModel</b> contains a <b>TypeDescriptor</b> that contains more <b>TypeDescriptors</b> than the implementation-specific maximum number of</li> </ul>

Error Complex Type	Condition
	<p><b>TypeDescriptors.</b></p> <ul style="list-style-type: none"> <li>The specified <b>TypeDescriptor</b> contains implementation-specific maximum number of <b>TypeDescriptors</b>.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The Entity containing the <b>Method</b> that contains the specified <b>Parameter</b> is active. <a href="#">&lt;110&gt;</a></li> <li>The specified <b>Parameter</b> does not exist.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>TypeDescriptor</b> does not exist.
<b>PackageFormatExceptionState</b> (section <a href="#">2.2.4.48</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>The specified XML does not conform to the format specified in [MS-BDCMFFS].</li> <li>The <b>Method</b> containing the specified <b>Parameter</b> does not contain the <b>FilterDescriptor</b> referenced by the specified <b>MetadataModel</b>.</li> </ul>

### 3.1.4.110.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage</b>	The request WSDL message for the <b>TypeDescriptorReadXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage</b>	The response WSDL message for the <b>TypeDescriptorReadXml</b> WSDL operation.

#### 3.1.4.110.1.1

#### **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_InputMessage**

The request WSDL message for the **TypeDescriptorReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml
```

The SOAP body contains the **TypeDescriptorReadXml** element.

### 3.1.4.110.1.2

#### **BusinessDataCatalogSharedService\_TypeDescriptorReadXml\_OutputMessage**

The response WSDL message for the **TypeDescriptorReadXml** WSDL operation.

The SOAP body contains the **TypeDescriptorReadXmlResponse** element.

### 3.1.4.110.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>TypeDescriptorReadXml</b>	The input data for the <b>TypeDescriptorReadXml</b> WSDL operation.
<b>TypeDescriptorReadXmlResponse</b>	The result data for the <b>TypeDescriptorReadXml</b> WSDL operation.

#### 3.1.4.110.2.1 TypeDescriptorReadXml

The **TypeDescriptorReadXml** element specifies the input data for the **TypeDescriptorReadXml** WSDL operation.

```
<xs:element name="TypeDescriptorReadXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**xml:** The XML representation of the **MetadataModel** that conforms to [\[MS-BDCMFFS\]](#) section 2.1.3.43.

**packageContents:** Specifies what parts of the **MetadataModel** are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding **MetadataObjects**.
- If the "Properties" value is not specified, the protocol server MUST ignore **Properties** in the specified **MetadataModel**.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding **MetadataObjects**.



- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified **MetadataModel**.

**parameterStruct:** The Parameter in which to create the TypeDescriptors contained by the **MetadataModel**.

**parentTypeDescriptorStruct:** The **TypeDescriptor** in which to create the **TypeDescriptors** contained by the **MetadataModel**. This value of this element MUST be NULL if the **MetadataModel** contains the root TypeDescriptor of the **Parameter**.

**callerCultureLcid:** This value MUST be ignored.

### 3.1.4.110.2.2 TypeDescriptorReadXmlResponse

The **TypeDescriptorReadXmlResponse** element specifies the result data for the **TypeDescriptorReadXml** WSDL operation.

```
<xs:element name="TypeDescriptorReadXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**TypeDescriptorReadXmlResult:** The TypeDescriptor from the metadata store that is corresponding to the specified MetadataModel.

**errors:** The list of implementation-specific error messages corresponding to the errors encountered during this operation as well as other implementation-specific informational messages related to the operation.

### 3.1.4.110.3 Complex Types

None.

### 3.1.4.110.4 Simple Types

None.

### 3.1.4.110.5 Attributes

None.

### 3.1.4.110.6 Groups

None.

### 3.1.4.110.7 Attribute Groups

None.

### 3.1.4.111 Update

This operation is used to update a **MetadataObject** in the metadata store.

The following is the WSDL port type specification of the **Update** WSDL operation.

```
<wsdl:operation name="Update" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns6:BusinessDataCatalogSharedService_Update_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse"
    message="tns6:BusinessDataCatalogSharedService_Update_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns6:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns6:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService\_Update\_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService\_Update\_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in **Complex Types** (section [2.2.4](#)). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
<b>AccessDeniedExceptionState</b> (section <a href="#">2.2.4.3</a> )	The <a href="#">security principal (2)</a> in whose context the protocol client is operating is not authorized to modify the specified <b>MetadataObject</b> .
<b>ArgumentException</b> (section <a href="#">2.2.4.7</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataObject</b> name is NULL or empty.</li> <li>▪ The length of the specified <b>MetadataObject</b> name exceeds 255 characters.</li> </ul>
<b>ConcurrentModificationExceptionState</b> (section <a href="#">2.2.4.27</a> )	The specified <b>MetadataObject</b> has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the <b>MetadataObject</b> . For example, this error can be triggered when one context reads the given <b>MetadataObject</b> , after which another context updates the same <b>MetadataObject</b> , and then the original context tries to update the same <b>MetadataObject</b> .
<b>DuplicateMetadataObjectExceptionState</b> (section <a href="#">2.2.4.30</a> )	The parent <b>MetadataObject</b> contains another <b>MetadataObject</b> with the same <b>MetadataObject</b> name.
<b>ExceededMetadataObjectLimitExceptionState</b> (section <a href="#">2.2.4.32</a> )	One of the following conditions applies: <ul style="list-style-type: none"> <li>▪ The parent of the specified <b>MetadataObject</b> already contains the implementation-specific maximum number of <b>MetadataObjects</b> of the same type as the specified <b>MetadataObject</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>MethodInstance</b> and one of the following conditions holds true: <ul style="list-style-type: none"> <li>▪ The type of the specified <b>MethodInstance</b> is <b>IdEnumerator</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>IdEnumerator</b>.<a href="#">&lt;111&gt;</a></li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>AccessChecker</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>AccessChecker</b>.<a href="#">&lt;112&gt;</a></li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>Deleter</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>Deleter</b>.<a href="#">&lt;113&gt;</a></li> </ul> </li> <li>▪ The type of the specified <b>MethodInstance</b> is <b>ChangedIdEnumerator</b> and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already</li> </ul>

Error complex type	Condition
	<p>contains another <b>MethodInstance</b> that has the type <b>ChangedIdEnumerator</b>.&lt;114&gt;</p> <ul style="list-style-type: none"> <li>▪ The type of the specified <b>MethodInstance</b> is DeletedIdEnumerator and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>DeletedIdEnumerator</b>.&lt;115&gt;</li> <li>▪ The type of the specified <b>MethodInstance</b> is BulkIdEnumerator and the <b>DataClass</b> that contains the specified <b>MethodInstance</b> already contains another <b>MethodInstance</b> that has the type <b>BulkIdEnumerator</b>.&lt;116&gt;</li> </ul>
<p><b>InvalidMetadataObjectExceptionState</b> (section <a href="#">2.2.4.36</a>)</p>	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataObject</b> is a root TypeDescriptor, and it is being updated to be part of a Parameter that already has a root <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is an Association or a <b>MethodInstance</b> and the <b>Parameter</b> of the specified ReturnPropertyDescriptor is not contained by the same Method as the specified <b>Association</b> or <b>MethodInstance</b>.&lt;117&gt;</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the specified type for the <b>MethodInstance</b> requires a <b>Parameter</b> with <b>Direction</b> "In" or "InOut" to be present on the <b>Method</b> containing the specified <b>Association</b> or <b>MethodInstance</b>.&lt;118&gt; The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ SpecificFinder</li> <li>▪ AccessChecker</li> <li>▪ Updater</li> <li>▪ Deleter</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ AssociationNavigator</li> <li>▪ Associator</li> <li>▪ Disassociator</li> <li>▪ StreamAccessor</li> <li>▪ BinarySecurityDescriptorAccessor</li> </ul> </li> </ul>

Error complex type	Condition
	<ul style="list-style-type: none"> <li>▪ BulkSpecificFinder</li> <li>▪ BulkAssociatedIdEnumerator</li> <li>▪ BulkAssociationNavigator</li> <li>▪ BulkIdEnumerator</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>Parameter</b> containing the specified <b>ReturnPropertyDescriptor</b> has the <b>Direction</b> attribute specified as "In".&lt;119&gt;</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST be present for the specified type for the <b>MethodInstance</b>, however it is passed in as NULL or 0.&lt;120&gt; The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ AccessChecker</li> <li>▪ AssociationNavigator</li> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ Scalar</li> <li>▪ SpecificFinder</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST have the "IsCollection" flag set for the specified type for the <b>MethodInstance</b>. The specified type of <b>MethodInstance</b> is one of the following values: <ul style="list-style-type: none"> <li>▪ SpecificFinder</li> <li>▪ Scalar</li> <li>▪ AccessChecker</li> <li>▪ Creator</li> <li>▪ StreamAccessor</li> </ul> </li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnPropertyDescriptor</b> MUST have the</li> </ul>

Error complex type	Condition
	<p>"IsCollection" flag not set for the specified type for the <b>MethodInstance</b>. The specified type of <b>MethodInstance</b> is one of the following values:</p> <ul style="list-style-type: none"> <li>▪ ChangedIdEnumerator</li> <li>▪ DeletedIdEnumerator</li> <li>▪ Finder</li> <li>▪ IdEnumerator</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> and the <b>ReturnTypeDescriptor</b> MUST NOT contain any <b>TypeDescriptors</b> for <b>MethodInstance</b> of StreamAccessor type.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>MethodInstance</b> and the <b>TypeDescriptor</b> that contains the <b>ReturnTypeDescriptor</b> MUST NOT contain any other <b>TypeDescriptors</b> for <b>MethodInstance</b> of StreamAccessor type and the type for the LobSystem containing the Entity containing <b>MethodInstance</b> of StreamAccessor type is <b>DataBase</b>.</li> <li>▪ The specified <b>MetadataObject</b> is an <b>Entity</b> and the specified <b>CacheUsage</b>, <b>MajorVersion</b>, <b>MinorVersion</b>, <b>BuildVersion</b>, or <b>RevisionVersion</b> is invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the specified Direction is invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>MethodInstance</b> and the specified type is invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the specified flags are invalid.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the <b>Method</b> that contains the specified <b>Parameter</b> already contains another <b>Parameter</b> with <b>Direction</b> "Return".</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>Parameter</b> containing the specified <b>TypeDescriptor</b> has value "In" for the <b>Direction</b> attribute, but the specified <b>TypeDescriptor</b> has the "Read-Only" flag set for its TypeDescriptorFlags attribute.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the specified <b>Parameter</b> is not allowed to have value "In" for the <b>Direction</b> attribute because one of the <b>TypeDescriptors</b> contained by the specified <b>Parameter</b> has the "Read-Only"</li> </ul>

Error complex type	Condition
	<p>flag set for its <b>TypeDescriptorFlags</b> attribute.</p> <ul style="list-style-type: none"> <li>▪ The specified <b>MetadataObject</b> is a <b>Parameter</b> and the specified <b>Parameter</b> is not allowed to have the value "In" for the Direction attribute because the specified <b>Parameter</b> contains a <b>ReturnPropertyDescriptor</b> of a <b>MethodInstance</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b>, which has its <b>Parameter</b> is being changed to the specified <b>Parameter</b>, and the specified <b>Parameter</b> already has a root <b>TypeDescriptor</b>.&lt;121&gt;</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the "IsCollection" flag cannot be set on a <b>TypeDescriptor</b> if its containing <b>TypeDescriptor</b> also has "IsCollection" flag set.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and a <b>TypeDescriptor</b> with the "IsCollection" flag set can only contain one <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the FilterDescriptor associated with the specified <b>TypeDescriptor</b> is not defined on the <b>Method</b> that contains the <b>Parameter</b> containing the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>Parameter</b> containing the containing <b>TypeDescriptor</b> is different from the <b>Parameter</b> containing the specified <b>TypeDescriptor</b>.</li> <li>▪ The specified <b>MetadataObject</b> is a <b>TypeDescriptor</b> and the <b>Parameter</b> containing the specified <b>TypeDescriptor</b> has a <b>TypeDescriptor</b> hierarchy deeper than an implementation-specific maximum allowed depth.</li> <li>▪ The specified <b>MetadataObject</b> is the <b>FilterDescriptor</b> and the <b>Method</b> associated with the specified <b>FilterDescriptor</b> already contains another <b>FilterDescriptor</b> of type <b>TimeStampFilter</b> and the specified <b>FilterDescriptor</b> is updated to be a <b>FilterDescriptor</b> of type <b>TimeStampFilter</b>.</li> </ul>
<b>InvalidOperationException</b> (section <a href="#">2.2.4.38</a> )	<p>One of the following conditions applies:</p> <ul style="list-style-type: none"> <li>▪ The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Association</b> or a <b>MethodInstance</b> contained by an active</li> </ul>

Error complex type	Condition
	<p><b>Entity.</b><a href="#">&lt;122&gt;</a></p> <ul style="list-style-type: none"> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is an <b>Entity</b>, which has its name or namespace being updated, and another <b>Entity</b> with the specified name and namespace is currently being referenced by other <b>MetadataObjects</b>.</li> <li>The operation cannot be performed because the specified <b>MetadataObject</b> is the <b>FilterDescriptor</b> and the <b>Method</b> that contains the specified <b>FilterDescriptor</b> also contains a <b>MethodInstance</b> of type ChangedIdEnumerator or a DeletedIdEnumerator, and the type of the <b>FilterDescriptor</b> is changed from <b>TimeStampFilter</b> to another type.</li> </ul>
<b>MetadataObjectNotFoundExceptionState</b> (section <a href="#">2.2.4.43</a> )	The specified <b>MetadataObject</b> does not exist.

Upon successful operation, the protocol server MUST increment the object version of any **MetadataObjects** that it updated. If the incremented object version of the **MetadataObject** is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated **MetadataObjects** to 0.

If the **metadataObjectStruct** element specifies any of the **MetadataObjects** in the following table, the protocol server MUST perform the corresponding actions, in addition to updating the specified **MetadataObject** in the metadata store:

MetadataObject	Action
<b>Parameter</b>	<p>If the <b>ordinalNumber</b> attribute of the specified <b>Parameter</b> is the same as the <b>ordinalNumber</b> attribute of another <b>Parameter</b> contained by the <b>Method</b> containing the specified <b>Parameter</b>, the <b>ordinalNumber</b> attribute of <b>Parameters</b> contained by that <b>Method</b> that have the <b>ordinalNumber</b> attribute greater than or equal to the <b>ordinalNumber</b> attribute of the specified <b>Parameter</b> MUST be incremented.</p> <p>After the operation completes, all <b>Parameters</b> contained by the <b>Method</b> containing the specified <b>Parameter</b> MUST have <b>ordinalNumber</b> attributes in the range from zero to <math>n-1</math>, where <math>n</math> is the number of <b>Parameters</b> contained by that <b>Method</b>. <b>Parameters</b> not contained by the <b>Method</b>, which contains the specified <b>Parameter</b>, MUST NOT have their <b>ordinalNumber</b> attributes altered. <a href="#">&lt;123&gt;</a></p>
<b>MethodInstance</b>	<p>When the <b>isDefault</b> attribute of the specified <b>MethodInstance</b> is set to 1, the protocol server MUST set the <b>isDefault</b> attribute of all other <b>MethodInstances</b> that have the same value for the <b>MethodInstanceType</b> attribute within the containing <b>DataClass</b> to 0. When the <b>isDefault</b> attribute of the specified <b>MethodInstance</b> is set to 0 (and it was previously set to 1), the protocol server MUST set the <b>IsDefault</b> attribute of a <b>MethodInstance</b> with the same value for <b>MethodInstanceType</b> within the containing <b>DataClass</b> to 1<a href="#">&lt;124&gt;</a>. The protocol server MUST decide which <b>MethodInstance</b> to alter based on an implementation-specific algorithm.</p>



### 3.1.4.111.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_Update_InputMessage</b>	The request WSDL message for the <b>Update</b> WSDL operation.
<b>BusinessDataCatalogSharedService_Update_OutputMessage</b>	The response WSDL message for the <b>Update</b> WSDL operation.

#### 3.1.4.111.1.1 BusinessDataCatalogSharedService\_Update\_InputMessage

The request WSDL message for the **Update** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update
```

The SOAP body contains the **Update** element.

#### 3.1.4.111.1.2 BusinessDataCatalogSharedService\_Update\_OutputMessage

The response WSDL message for the **Update** WSDL operation.

The SOAP body contains the **UpdateResponse** element.

### 3.1.4.111.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>Update</b>	The input data for the <b>Update</b> WSDL operation.
<b>UpdateResponse</b>	The result data for the <b>Update</b> WSDL operation.

#### 3.1.4.111.2.1 Update

The **Update** element specifies the input data for the **Update** WSDL operation.

```
<xs:element name="Update" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** The MetadataObject to update [<125>](#). The MetadataObjectId of the specified **MetadataObject** MUST be used to identify the **MetadataObject** to update. The remaining values of the specified **MetadataObject** MUST be used to update the values associated with the identified **MetadataObject** in the metadata store.

### 3.1.4.111.2 UpdateResponse

The **UpdateResponse** element specifies the result data for the **Update** WSDL operation.

```
<xs:element name="UpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
        name="UpdateResult" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**UpdateResult:** The updated MetadataObject.

### 3.1.4.111.3 Complex Types

None.

### 3.1.4.111.4 Simple Types

None.

### 3.1.4.111.5 Attributes

None.

### 3.1.4.111.6 Groups

None.

### 3.1.4.111.7 Attribute Groups

None.

### 3.1.4.112 WriteSlicedXml

This operation is deprecated from the protocol and MUST NOT [<126>](#) be called.

The following is the WSDL port type specification of the **WriteSlicedXml** WSDL operation.

```
<wsdl:operation name="WriteSlicedXml" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml"
    message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output>
    wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlResponse"
  </wsdl:output>
</wsdl:operation>
```

```

message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Faul
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFaul
t_Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMes
sage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_
FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Fau
ltMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFaul
t_Message" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

### 3.1.4.112.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
<b>BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage</b>	The request WSDL message for the <b>WriteSlicedXml</b> WSDL operation.
<b>BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage</b>	The response WSDL message for the <b>WriteSlicedXml</b> WSDL

Message	Description
	operation.

### 3.1.4.112.1.1 BusinessDataCatalogSharedService\_WriteSlicedXml\_InputMessage

The request WSDL message for the **WriteSlicedXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml
```

The SOAP body contains the **WriteSlicedXml** element.

### 3.1.4.112.1.2 BusinessDataCatalogSharedService\_WriteSlicedXml\_OutputMessage

The response WSDL message for the **WriteSlicedXml** WSDL operation.

The SOAP body contains the **WriteSlicedXmlResponse** element.

### 3.1.4.112.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
<b>WriteSlicedXml</b>	The input data for the <b>WriteSlicedXml</b> WSDL operation.
<b>WriteSlicedXmlResponse</b>	The result data for the <b>WriteSlicedXml</b> WSDL operation.

#### 3.1.4.112.2.1 WriteSlicedXml

The **WriteSlicedXml** element specifies the input data for the **WriteSlicedXml** WSDL operation.

```
<xs:element name="WriteSlicedXml" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**metadataObjectStruct:** Deprecated.

**packageContents:** Deprecated.

### 3.1.4.112.2 WriteSlicedXmlResponse

The **WriteSlicedXmlResponse** element specifies the result data for the **WriteSlicedXml** WSDL operation.

```
<xs:element name="WriteSlicedXmlResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**WriteSlicedXmlResult:** Deprecated.

### 3.1.4.112.3 Complex Types

None.

### 3.1.4.112.4 Simple Types

None.

### 3.1.4.112.5 Attributes

None.

### 3.1.4.112.6 Groups

None.

### 3.1.4.112.7 Attribute Groups

None.

## 3.1.5 Timer Events

None.

## 3.1.6 Other Local Events

None.

## 4 Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view on how the protocol client operates with the protocol server when executing such an operation.

The examples in this section manipulate the `LobSystem` and `Entity` objects. However, the principals illustrated apply equally to other `MetadataObjects`.

### 4.1 Creating an `LobSystem`

This example illustrates how a user can create an `LobSystem` in the metadata store.

The following actions are carried out:

1. The user requests the protocol client to create an **`LobSystem`** with the name "ExampleCRM".
2. The protocol client calls the **`MetadataObjectCreate`** method as shown in the following sample code segment:

```
// Assumes a Service Reference to the Business Data Catalog shared service has been
created

// Instantiate the Business Data Catalog SharedService client
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

// Instantiate the AdministrationMetadataCatalogStruct
BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new
BDCServiceReference.AdministrationMetadataCatalogStruct();
myBDC.id = 1;

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
myBDC.partitionId = myPartition;

// Instantiate the LobSystem object
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();

// Setup the LobSystem object
myLob.partitionId = myPartition;
myLob.name = "ExampleCRM";
myLob.systemType = BDCServiceReference.SystemType.Database;

// call the MetadataObjectCreate method to create the LobSystem.
myClient.MetadataObjectCreate(myLob, myBDC);
```

#### Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues i:type="a:LobSystemStruct" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
```

```

    <a:id>0</a:id>
    <a:isCached>>false</a:isCached>
    <a:name>ExampleCRM</a:name>
    <a:objectVersion>0</a:objectVersion>
    <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
    <a:systemType>Database</a:systemType>
  </rawValues>
  <parentStruct i:type="a:AdministrationMetadataCatalogStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
    <a:id>1</a:id>
    <a:isCached>>false</a:isCached>
    <a:name i:nil="true"/>
    <a:objectVersion>0</a:objectVersion>
    <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
  </parentStruct>
</MetadataObjectCreate>
</s:Body>
</s:Envelope>

```

## Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <MetadataObjectCreateResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <MetadataObjectCreateResult i:type="a:LobSystemStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </MetadataObjectCreateResult>
    </MetadataObjectCreateResponse>
  </s:Body>
</s:Envelope>

```

## 4.2 Setting the Security Information of a MetadataObject

This example illustrates how a user can set Security Information of an LobSystem.

This example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to set ACEs on the **LobSystem** with the name "ExampleCRM".
2. The protocol client calls the **SetAccessControlEntries** method as shown in the following sample code segment:

```

//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;

```

```

BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;
BDCServiceReference.AccessControlEntryStruct myACL;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//setup the ACL object
myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
myACL.rights = 23;
myACL.principalName = "Domain\\UserName";
myACL.principalDisplayName = "UserName";

myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] {
myACL };

// set the ACL on the metadataobject by calling the SetAccessControlEntries method
myClient.SetAccessControlEntries(myLob, myACLs, null);

```

## Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SetAccessControlEntries
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:LobSystemStruct"
        xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
        instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </metadataObjectStruct>
      <accessControlEntries xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:AccessControlEntryStruct>
          <a:principalBinaryForm i:nil="true"/>
          <a:principalDisplayName>UserName</a:principalDisplayName>
          <a:principalName>Domain\UserName</a:principalName>
          <a:rights>23</a:rights>
        </a:AccessControlEntryStruct>
      </accessControlEntries>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
    </SetAccessControlEntries>
  </s:Body>
</s:Envelope>

```

## Response body



```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SetAccessControlEntriesResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
    </s:Body>
  </s:Envelope>
```

### 4.3 Reading the Security Information of a MetadataObject

This example illustrates how a user can read the ACEs of an LobSystem.

This example assumes that the preceding examples have been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** identified by name "ExampleCRM".
2. The protocol client calls the **GetAccessControlEntries** method as shown in the following code segment:

```
//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Read the ACL entries on the entity
myACLs = myClient.GetAccessControlEntries(myLob, null, true);
```

#### Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAccessControlEntries
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:LobSystemStruct"
        xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
        instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </metadataObjectStruct>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
      <fallback>>true</fallback>
    </GetAccessControlEntries>
  </s:Body>
</s:Envelope>
```

```
</GetAccessControlEntries>
</s:Body>
</s:Envelope>
```

## Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetAccessControlEntriesResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetAccessControlEntriesResult xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:AccessControlEntryStruct>
          <a:principalBinaryForm i:nil="true"/>
          <a:principalDisplayName>UserName</a:principalDisplayName>
          <a:principalName>Domain\UserName</a:principalName>
          <a:rights>23</a:rights>
        </a:AccessControlEntryStruct>
      </GetAccessControlEntriesResult>
    </GetAccessControlEntriesResponse>
  </s:Body>
</s:Envelope>
```

## 4.4 Creating an Entity

This example illustrates how a user can create an Entity in the metadata store.

The example assumes that:

- An **LobSystem** that will contain the **Entity** is already created in the metadata store.
- The **LobSystem** is identified by the name "ExampleCRM".
- The **PartitionId** used while creating the **LobSystem** is "00000000-0000-0000-0000-000000000000".
- The **LobSystem** has an ACE associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** with the name "Customer", the namespace "example.com", and an estimated instance count of 100.
2. The protocol client calls the **EntityCreate** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// /***** Any implementation-specific impersonation logic goes here *****/

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

//Get LOB system first as it is needed for creating the entity.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);
```

```

//Instantiate entity object
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

//set properties
myEntity.name = "Customer";
myEntity.@namespace = "example.com";
myEntity.isCached = true;
myEntity.objectVersion = 0;
System.Version ver = new Version(1,0,0,0);
myEntity.version = ver;
myEntity.partitionId = myPartition;
myEntity.estimatedInstanceCount = 100;

//create entity
myClient.EntityCreate(myEntity,myLob,null);

```

3. The protocol server creates the **Entity** in the metadata store.

4. The protocol server copies the ACE of the **LobSystem** and associates it with the newly created **Entity**.

### Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <rawValues xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>0</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </rawValues>
      <lobSystemStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>122</a:id>
        <a:isCached>>false</a:isCached>
        <a:name>ExampleCRM</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:systemType>Database</a:systemType>
      </lobSystemStruct>
      <modelStruct i:nil="true" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>

```

```

    </EntityCreate>
  </s:Body>
</s:Envelope>

```

## Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <EntityCreateResult xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </EntityCreateResult>
    </EntityCreateResponse>
  </s:Body>
</s:Envelope>

```

## 4.5 Activating an Entity

This example illustrates how a user can set a version of an Entity to be active in the metadata store.

This example assumes that:

- The preceding examples have been successfully executed.
- After successfully creating the "Customer" **Entity**, the user has added some other MetadataObjects to; an Identifier, Method, and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** with the name "Customer", the namespace "example.com", and the **PartitionId** "00000000-0000-0000-0000-000000000000".
2. The protocol client calls the **Activate** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

```

```

System.Version ver = new Version(1,0,0,0);

myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer",
ver, partition);

BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

### Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <entityStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>0</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>>false</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </entityStruct>
    </Activate>
  </s:Body>
</s:Envelope>

```

### Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <ActivateResult xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
      </ActivateResult>
    </ActivateResponse>
  </s:Body>
</s:Envelope>

```

```

    <a:namespace>example.com</a:namespace>
    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
      <b:_Build>0</b:_Build>
      <b:_Major>1</b:_Major>
      <b:_Minor>0</b:_Minor>
      <b:_Revision>0</b:_Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
  </ActivateResult>
</ActivateResponse>
</s:Body>
</s:Envelope>

```

## 4.6 Reading an Entity

This example shows how a user can read an Entity in the metadata store.

The example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** with the name "Customer" and the namespace "example.com" from the metadata store.
2. The protocol client calls the **GetEntityWithNameAndNamespace** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server retrieves the attributes of the stored **Entity**.
5. The protocol server returns an **Entity** object to the protocol client.

### Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEntityWithNameAndNamespace
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <namespace>example.com</namespace>
      <name>Customer</name>
      <partitionId>00000000-0000-0000-0000-000000000000</partitionId>
    </GetEntityWithNameAndNamespace>
  </s:Body>

```

```
</s:Envelope>
```

## Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEntityWithNameAndNamespaceResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetEntityWithNameAndNamespaceResult xmlns:a="Microsoft.SharePoint.BusinessData"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </GetEntityWithNameAndNamespaceResult>
    </GetEntityWithNameAndNamespaceResponse>
  </s:Body>
</s:Envelope>
```

## 4.7 Creating Properties for MetadataObjects

This example shows how a user can create Properties for an Entity in the metadata store. The concepts can be applied to any other MetadataObject.

The example assumes that the preceding examples have been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to create a Property for the **Entity** with the name "Customer" and the namespace "example.com".
2. To add a custom property called "CustomerAlternateName", the protocol client calls the **SaveProperty** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
BDCServiceReference.PropertyStruct myProperty = new
BDCServiceReference.PropertyStruct();
System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");
```

```

//Get the entity object using the name and namespace
myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

//Setup the Property object
myProperty.name = "CustomerAlternateName";
myProperty.typeName = "System.String";
myProperty.settingId = null;

//Add the custom propety to the entity object
myClient.SaveProperty(myEntity, myProperty);

```

## Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
      <propertyStruct xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:needsTypeReflectionResolution>false</a:needsTypeReflectionResolution>
        <a:wcfMarshallableValue i:nil="true"/>
        <a:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
        <a:wcfMarshallableValueType i:nil="true"/>
        <a:metadataObjectId>0</a:metadataObjectId>
        <a:name>CustomerAltName</a:name>
        <a:settingId i:nil="true"/>
        <a:typeName>System.String</a:typeName>
      </propertyStruct>
    </SaveProperty>
  </s:Body>
</s:Envelope>

```

## Response body



```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```

## 4.8 Adding Localized Names for Metadata Objects

This example shows how a user can add a localized name for an Entity in the metadata store. The concepts can be applied to any other Metadata Object.

The example assumes that the preceding examples have been successfully executed and that the user wants to create the localized name for LCID 2058.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** with the name "Customer" and the namespace "example.com".
2. The protocol client calls the **SaveLocalizedName** method as shown in the following code segment:

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
```

3. The protocol server checks whether an Entity with name "Customer" and namespace "example.com" exists in the Metadata store.
4. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

### Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Customer</a:name>
        <a:objectVersion>1</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
      </metadataObjectStruct>
    </SaveLocalizedName>
  </s:Body>
</s:Envelope>
```

```

    <a:modelId>0</a:modelId>
    <a:namespace>example.com</a:namespace>
    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
      <b:_Build>0</b:_Build>
      <b:_Major>1</b:_Major>
      <b:_Minor>0</b:_Minor>
      <b:_Revision>0</b:_Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
  </metadataObjectStruct>
  <lcid>2058</lcid>
  <name>Cliente</name>
  <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</SaveLocalizedName>
</s:Body>
</s:Envelope>

```

## Response body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveLocalizedNameResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

## 4.9 Updating an Entity

This example illustrates how a user can update an Entity in the metadata store.

The example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** with the name "Customer" and the namespace "example.com" and change its name from "Customer" to "Buyer".
2. The protocol client calls the **Update** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,1,0,0);
Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

// Set the name property to "Buyer"
myEntity.name = "Buyer";

```

```
// Call update method.
myClient.Update(myEntity);
```

3. The protocol server checks if the **Entity** exists in the metadata store.

4. If it exists, the protocol server updates all the name attribute of the **Entity** with the supplied value.

### Request body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>2</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
        <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
          <b:_Build>0</b:_Build>
          <b:_Major>1</b:_Major>
          <b:_Minor>0</b:_Minor>
          <b:_Revision>0</b:_Revision>
        </a:version>
        <a:cacheUsage>Default</a:cacheUsage>
        <a:description i:nil="true"/>
        <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
      </metadataObjectStruct>
    </Update>
  </s:Body>
</s:Envelope>
```

### Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <UpdateResult i:type="a:EntityStruct" xmlns:a="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>3</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
        <a:active>true</a:active>
        <a:lobSystemId>122</a:lobSystemId>
        <a:modelId>0</a:modelId>
        <a:namespace>example.com</a:namespace>
      </UpdateResult>
    </UpdateResponse>
  </s:Body>
</s:Envelope>
```

```

    <a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
      <b:_Build>0</b:_Build>
      <b:_Major>1</b:_Major>
      <b:_Minor>0</b:_Minor>
      <b:_Revision>0</b:_Revision>
    </a:version>
    <a:cacheUsage>Default</a:cacheUsage>
    <a:description i:nil="true"/>
    <a:estimatedInstanceCount>100</a:estimatedInstanceCount>
  </UpdateResult>
</UpdateResponse>
</s:Body>
</s:Envelope>

```

## 4.10 Deleting an Entity

This example illustrates how a user can delete an Entity in the metadata store.

The example assumes that the preceding example has been successfully executed.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** with the name "Buyer" and the namespace "example.com".
2. The protocol client calls the **Delete** method as shown in the following code segment:

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
// /***** Any implementation-specific impersonation logic goes here *****/
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1, 1);

Guid myPartition = new Guid("00000000-0000-0000-0000-000000000000");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer",
myPartition);
myClient.Delete(myEntity);

```

3. The protocol server checks if the Entity exists in the Metadata store.

4. If it exists, the protocol server deletes the Entity from the Metadata store.

### Request body

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="a:EntityStruct"
xmlns:a="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <a:id>135</a:id>
        <a:isCached>true</a:isCached>
        <a:name>Buyer</a:name>
        <a:objectVersion>3</a:objectVersion>
        <a:partitionId>00000000-0000-0000-0000-000000000000</a:partitionId>
      </metadataObjectStruct>
    </Delete>
  </s:Body>
</s:Envelope>

```

```
<a:active>true</a:active>
<a:lobSystemId>122</a:lobSystemId>
<a:modelId>0</a:modelId>
<a:namespace>example.com</a:namespace>
<a:version xmlns:b="http://schemas.datacontract.org/2004/07/System">
  <b:_Build>0</b:_Build>
  <b:_Major>1</b:_Major>
  <b:_Minor>0</b:_Minor>
  <b:_Revision>0</b:_Revision>
</a:version>
<a:cacheUsage>Default</a:cacheUsage>
<a:description i:nil="true"/>
<a:estimatedInstanceCount>100</a:estimatedInstanceCount>
</metadataObjectStruct>
</Delete>
</s:Body>
</s:Envelope>
```

## Response body

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None

## 6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0"?>
<wsdl:definitions xmlns:tns6="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns7="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog/Imports">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administ
ration.Client.Constants"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/">
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
      <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
      <xs:import namespace="Microsoft.SharePoint.BusinessData"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="BusinessDataCatalogSharedService">
    <wsdl:operation name="GetServiceApplicationId">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationId"
message="tns6:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPartitionIds">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIds"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Faul
tMessage"/>
  </wsdl:portType>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault
_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ReadSlicedXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXml"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlResponse"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault
_FaultMessage"/>
    </wsdl:operation>

```



```

    <wsdl:operation name="WriteSlicedXml">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMes
sage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Faul
tMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMes
sage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Fau
ltMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="HaveRights">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRights"
message="tns6:BusinessDataCatalogSharedService_HaveRights_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns6:BusinessDataCatalogSharedService_HaveRights_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"

```

```

message="tns6:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage
"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_Mes
sage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage
"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_Faul
tMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMe
ssage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_In
putMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ou
tputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bd
cExceptionStateFault_FaultMessage"/>

```

```

    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_In
validOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Me
tadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllLocalizedNames">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExcepsi
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputM
essage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"

```

```

message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Output
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argume
ntOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExc
eptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invali
dOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metada
taExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAllProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllProperties"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesResponse"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>

```

```

        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultM
essage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFaul
t_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SaveLocalizedName">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedName"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameResponse"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_Fault
Message"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_F
aultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_Fault
Message"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFau
lt_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ClearLocalizedNames">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNames"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesResponse"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFaul
t_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveLocalizedName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedName"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameResponse"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SaveProperty">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionExceptionFault"
name="ArgumentOutOfRangeExceptionExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ClearProperties">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/ClearPropertiesResponse"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMe
ssage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fa
ultMessage"/>
</wsdl:operation>
<wsdl:operation name="RemoveProperty">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveProperty"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyResponse"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMes
sage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"

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message="tns6:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMes
sage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_Fau
ltMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAccessControlEntries">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntries"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesResponse"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionState
Fault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetAccessControlEntries">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntries"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/SetAccessControlEntriesResponse"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionState
Fault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectCreate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreate"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateResponse"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fa
ultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFau
lt_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="Update">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Update" message="tns6:BusinessDataCatalogSharedService_Update_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateResponse"
message="tns6:BusinessDataCatalogSharedService_Update_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessag
e"/>
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Delete" message="tns6:BusinessDataCatalogSharedService_Delete_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse"
message="tns6:BusinessDataCatalogSharedService_Delete_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessag
e"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectMergeXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXml"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExcepci
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"

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name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectWriteXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptio
nsStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildren">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildren"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenResponse"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFau
lt_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFa
ult_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyAclAcrossChildrenForSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSt
ateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperati
onExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcept
ionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="CopyAclToSetting">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSetting"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_F
aultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetCacheInvalidationRecordsSince">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSince"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceResponse"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionS
tateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperat
ionExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcep
tionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormat
ExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ImportPackage">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackage"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageResponse"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMess
age"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Faul
tMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault
_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="ImportPackageWithProgress">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgress"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExce
ptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionSta
teFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExcepti
onStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetImportProgress">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgress"
message="tns6:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetImportProgressResponse"
message="tns6:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ExportPackage">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackage"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageResponse"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMess
age"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_Fault
Message"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMess
age"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_F
aultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"

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message="tns6:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
message="tns6:BusinessDataCatalogSharedService_GetModelById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetModelById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetModelsByName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage"/>
  </wsdl:operation>

```

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetModelByName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByName"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_
FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Fau
ltMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetModelsByEntityId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddEntityToModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelResponse"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultM
essage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveEntityFromModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModel"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelResponse"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptio
nFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFa
ult_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteNoCascade">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascade"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fa
ultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ModelReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXml"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlResponse"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessa
ge"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_In
putMessage"/>
        <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ou
tputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ar
gumentExceptionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ar
gumentNullExceptionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bd
cExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_In
validOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Me
tadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemAllAssembliesBytes">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytes"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionSta
teFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExcepti
onStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemDataByLobSystem">

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    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystem"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionS
tateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetLobSystemDataByLobSystemId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExce
ptionFault_FaultMessage"/>

```

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWit
hModel_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemByName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsLikeName">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetLobSystemById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage"/>
          <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage"/>
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById_MetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityCount">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"

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name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentN
ullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentO
utOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcept
ionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOp
erationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadateE
xceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GenerateProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage
"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExce
ptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNull
ExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcException
StateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOpera
tionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExce
ptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystem"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"/
>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionSt
ateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcept
ionStateFault_FaultMessage"/>
  </wsdl:operation>

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    <wsdl:operation name="GetLobSystemInstancesForLobSystem">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage
"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessag
e"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExce
ptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNull
ExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcException
StateFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOpera
tionExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExce
ptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstanceById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFaul
t_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStat
eFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetDataClassesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystem"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExcep
tionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionState
Fault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetDataClassById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassById"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesReferencedByModelId">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExcepti
onFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionSta
teFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExcepti
onStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"/
>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"

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message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityWithNameAndNamespace">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion"

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message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputM
essage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Output
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argume
ntOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExc
eptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invali
dOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metada
taExceptionStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetEntitiesForSystem">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystem"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFaul
t_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRole"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"
/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionS
tateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperat
ionExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExcep
tionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetDefaultActionForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntity"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionSta
teFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRol
e_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetEntityById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_Faul
tMessage"/>
    </wsdl:operation>
    <wsdl:operation name="EntityCreate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreate"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateResponse"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_
FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="Activate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Activate" message="tns6:BusinessDataCatalogSharedService_Activate_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateResponse"
message="tns6:BusinessDataCatalogSharedService_Activate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns6:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeException_FaultMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullException"
message="tns6:BusinessDataCatalogSharedService_Activate_ArgumentNullException_FaultMessa
ge"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns6:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeException_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationException"
message="tns6:BusinessDataCatalogSharedService_Activate_InvalidOperationException_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Faul
tMessage"/>
    </wsdl:operation>
    <wsdl:operation name="Deactivate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Deactivate"
message="tns6:BusinessDataCatalogSharedService_Deactivate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateResponse"
message="tns6:BusinessDataCatalogSharedService_Deactivate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns6:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeException_FaultMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullException"
message="tns6:BusinessDataCatalogSharedService_Deactivate_ArgumentNullException_FaultMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns6:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeException_Fa
ultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage
"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMe
ssage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fa
ultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="BulkSwitchActiveOrValidate">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidate"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateResponse"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionSt
ateFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcept
ionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionById"
message="tns6:BusinessDataCatalogSharedService_GetActionById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_Faul
tMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Fau
ltMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFau
lt_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetActionParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterById"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeException
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdArgumentOutOfRangeFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExcepti
onFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateF
ault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetActionParametersForAction">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForAction"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionResponse"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionState
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataException
StateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetIdentifierById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_Fault
Message"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_
FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetIdentifiersForEntity">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntity"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault
_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionState
Fault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodById"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_Fault
Message"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Faul
tMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodsForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClass"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_
FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateF
ault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="IsMethodInstantiated">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiated"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedResponse"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationException
Fault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFau
lt_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorById"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionState
Fault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExce
ptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStat
eFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperation
ExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptio
nStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetMethodInstanceById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_F
aultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFa
ult_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClass"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"/
>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionSta
teFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExcepti
onStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionS
tateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CheckPathInMethodInstances">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstances"
message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesResponse"
message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFa
ult_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSt
ateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetParameterById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultM
essage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_F
aultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetParametersForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethod"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_
FaultMessage"/>

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        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFa
ult_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_
FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExcepci
onFault_FaultMessage"/>
        <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateF
ault_FaultMessage"/>
        </wsdl:operation>
        <wsdl:operation name="IsParameterReferencedByMethodInstance">
            <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMes
sage"/>
            <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMe
ssage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Argument
ExceptionFault_FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Argument
NullExceptionFault_FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Argument
OutOfRangeExceptionFault_FaultMessage"/>
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcep
tionStateFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidO
perationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_Metadata
ExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMess
age"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterResponse"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMes
sage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentN
ullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataE
xceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_InputMessage"/>
  <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeD
escriptor_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Inpu
tMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Outpu
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argu
mentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"

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name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperationExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorById">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFa
ult_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetRootTypeDescriptorForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameter"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage
"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterResponse"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNull
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcException
StateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOpera
tionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExce
ptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_I
nputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"

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message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"

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name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShared

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edService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_Metadata
ExceptionStateFault_FaultMessage"/>
</wsdl:operation>
  <wsdl:operation name="GetDefaultValuesForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage
"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessag
e"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcException
StateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOpera
tionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExce
ptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetDefaultValuesForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage
"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessag
e"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNull
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutO
fRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcException
StateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOpera
tionExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExce
ptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessa
ge"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMess
age"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNu
llExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOut
OfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExcepti
onStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOpe
rationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataEx
ceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetLevelForTypeDescriptor">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptor"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorResponse"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptio
nStateFault_FaultMessage"/>

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    </wsdl:operation>
    <wsdl:operation name="TypeDescriptorCreate">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreate"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateResponse"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFaul
t_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionExcepci
onFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_Fa
ultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationException
Fault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFau
lt_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="TypeDescriptorMergeXml">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXml"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlResponse"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_
FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFau
lt_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionS
tateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="TypeDescriptorReadXml">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_F
aultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSt
ateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationById">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationById"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault
_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForEntityAndRole">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRole"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"/
>

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    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"
/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSt
ateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperati
onExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcept
ionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationsForDataClass">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateF
ault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationEx
ceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionS
tateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForMethod">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethod"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullException
Fault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFaul
t_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStat
eFault_FaultMessage"/>

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    </wsdl:operation>
    <wsdl:operation name="GetAssociationMembersInRole">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcept
ionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateF
ault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperatio
nExceptionFault_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationGroupById">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupById"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault
_FaultMessage"/>
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupsForEntity">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptionFault_FaultMessage"/>

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    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptio
nStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
putMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupResponse"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ou
tputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Ar
gumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bd
cExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_In
validOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Me
tadataExceptionStateFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroup"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inpu
tMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"

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message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExceptionStateFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
    <wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage"/>
    <wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"

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name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_InvalidOperationExceptionFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup
_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="GetXmlSchemaForView">
<wsdl:input
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForView"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"/>
<wsdl:output
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewResponse"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_Fau
ltMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault
_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_Fau
ltMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFau
lt_FaultMessage"/>
<wsdl:fault
wsaw:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns6:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFau
lt_FaultMessage"/>
</wsdl:operation>

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</wsdl:portType>
<wsdl:binding name="DefaultBinding_BusinessDataCatalogSharedService"
type="tns6:BusinessDataCatalogSharedService">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="GetServiceApplicationId">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetServiceApplicationId" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetAllPartitionIds">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPartitionIds" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
      <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="ReadSlicedXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ReadSlicedXml" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessDeniedExceptionFault">
      <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

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</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="WriteSlicedXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/WriteSlicedXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="HaveRights">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/HaveRights" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

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<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNamesForMetadataObjectStruct" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllLocalizedNames">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNames" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">

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    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPropertiesForMetadataObjectStruct" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllProperties">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllProperties" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```



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</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveLocalizedName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveLocalizedName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearLocalizedNames">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearLocalizedNames" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

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<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveLocalizedName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveLocalizedName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveProperty">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveProperty" style="document"/>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">

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    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearProperties">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearProperties" style="document"/>
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    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveProperty">
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soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveProperty" style="document"/>
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    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>

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</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAccessControlEntries">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAccessControlEntries" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetAccessControlEntries">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetAccessControlEntries" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
</wsdl:fault>

```

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<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectCreate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectCreate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Update">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Update" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

```

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    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Delete">
  <soap:operation
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dService/Delete" style="document"/>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectMergeXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectMergeXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```

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</wsdl:fault>
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  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectReadXml">
  <soap:operation
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dService/MetadataObjectReadXml" style="document"/>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
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    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
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  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectWriteXml">
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  <wsdl:input>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
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<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildren">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildren" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildrenForSetting">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildrenForSetting" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">

```



```

    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclToSetting">
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dService/CopyAclToSetting" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetCacheInvalidationRecordsSince">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetCacheInvalidationRecordsSince" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessDeniedExceptionFault">
    <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace=""/>
  </wsdl:fault>

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</wsdl:fault>
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  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
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<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
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<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
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</wsdl:fault>
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  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
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</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackage">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackage" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackageWithProgress">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackageWithProgress" style="document"/>

```

```

<wsdl:input>
  <soap:body use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetImportProgress">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetImportProgress" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ExportPackage">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ExportPackage" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

```

    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelsByName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelByName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelByName" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelsByEntityId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByEntityId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddEntityToModel">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddEntityToModel" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveEntityFromModel">
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soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveEntityFromModel" style="document"/>
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    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

```

    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteNoCascade">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteNoCascade" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ModelReadXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ModelReadXml" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemProxyAssemblyBytesByLobSystemId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemAllAssembliesBytes">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemAllAssembliesBytes" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>

```



```

<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemDataByLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemDataByLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetLobSystemDataByLobSystemId">
  <soap:operation
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dService/SetLobSystemDataByLobSystemId" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

```

    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsReferencedByEntitiesAssociatedWithModel" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemByName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemByName" style="document"/>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLobSystemsLikeName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemsLikeName" style="document"/>
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    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntityCount">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityCount" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetSystemUtilityTypeNameForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

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    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GenerateProxyAssemblyForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GenerateProxyAssemblyForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteProxyAssemblyForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteProxyAssemblyForLobSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>

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    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemInstancesForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstancesForLobSystem" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemInstanceById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstanceById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

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    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetDataClassesForSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassesForSystem" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetDataClassById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">

```

```

        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesReferencedByModelId">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesReferencedByModelId" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesLikeNameAndNamespace">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesLikeNameAndNamespace" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>

```



```

    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetEntityWithNameAndNamespace">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/GetEntityWithNameAndNamespace" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/GetEntityWithNameAndNamespaceAndVersion" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

</wsdl:operation>
<wsdl:operation name="GetEntitiesForSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForSystem" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetEntitiesForAssociationAndRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesForAssociationAndRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>

```

```

    <wsdl:operation name="SetDefaultActionForEntity">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultActionForEntity" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityNameAndNamespacesForAssociationAndRole" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityById">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="EntityCreate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/EntityCreate" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
    </wsdl:fault>

```

```

</wsdl:operation>
<wsdl:operation name="Activate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Activate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Deactivate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Deactivate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">

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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="BulkSwitchActiveOrValidate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/BulkSwitchActiveOrValidate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionsForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParameterById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParameterById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>

```

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<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionParametersForAction">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParametersForAction" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifierById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifierById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">

```



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        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifiersForEntity">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifiersForEntity" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>

```

```

    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetMethodsForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodsForDataClass" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="IsMethodInstantiated">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsMethodInstantiated" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

```

```

    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorById" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorsForMethod">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorsForMethod" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">

```

```

        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodInstanceById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstanceById" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodInstancesForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForDataClass" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>

```

```

    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetMethodInstancesForMethod">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/GetMethodInstancesForMethod" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="CheckPathInMethodInstances">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/CheckPathInMethodInstances" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetParameterById">
    <soap:operation
      soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
      dService/GetParameterById" style="document"/>
    <wsdl:input>

```

```

    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetParametersForMethod">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParametersForMethod" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="IsParameterReferencedByMethodInstance">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsParameterReferencedByMethodInstance" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal"/>
</wsdl:output>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeReflectorTypeNameForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeReflectorTypeNameForParameter" style="document"/>
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  </wsdl:input>
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    <soap:body use="literal"/>
  </wsdl:output>
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  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" style="document"/>
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    <soap:body use="literal"/>
  </wsdl:input>

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<wsdl:output>
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</wsdl:output>
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<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
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<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
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<wsdl:fault name="InvalidOperationExceptionFault">
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<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
  <soap:operation
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dService/GetFieldTypeDescriptorsByMethodInstance" style="document"/>
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  </wsdl:input>
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    <soap:body use="literal"/>
  </wsdl:output>
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    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
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    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
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  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
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  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
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    <soap:body use="literal"/>
  </wsdl:input>
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    <soap:body use="literal"/>
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<wsdl:fault name="ArgumentNullExceptionFault">
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<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
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</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
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</wsdl:fault>
</wsdl:operation>
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soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetRootTypeDescriptorForParameter" style="document"/>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
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    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsByNameAndLevelForParameter" style="document"/>
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    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

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</wsdl:output>
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  </wsdl:input>
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  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
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  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
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</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
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<wsdl:fault name="ArgumentExceptionFault">
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  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
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  </wsdl:input>
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    <soap:body use="literal"/>
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  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
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  </wsdl:input>
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    <soap:body use="literal"/>
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    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
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  <wsdl:fault name="ArgumentNullExceptionFault">
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  </wsdl:input>
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    <soap:body use="literal"/>
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<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
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  <wsdl:fault name="InvalidOperationExceptionFault">
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  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
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    <soap:body use="literal"/>
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```

```

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  <wsdl:fault name="InvalidOperationExceptionFault">
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  <wsdl:fault name="InvalidOperationExceptionFault">
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  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

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  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationMembersInRole">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationMembersInRole" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>

```



```

<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupById" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupsForEntity" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">

```

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    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationReferencesForAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationReferencesForAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddAssociationReferenceToAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddAssociationReferenceToAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

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</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteAssociationReferenceFromAssociationGroup" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetXmlSchemaForView">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetXmlSchemaForView" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace=""/>
  </wsdl:fault>

```

```

<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace=""/>
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace=""/>
</wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage
">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Activate_InputMessage">
  <wsdl:part name="parameters" element="tns6:Activate"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Activate_OutputMessage">
  <wsdl:part name="parameters" element="tns6:ActivateResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage
">
  <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNull
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutO
fRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcException
StateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage
">
    <wsdl:part name="parameters" element="tns6:AddAssociationReferenceToAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOpera
tionExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExce
ptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessag
e">
    <wsdl:part name="parameters"
element="tns6:AddAssociationReferenceToAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_M
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_InputMessage">
    <wsdl:part name="parameters" element="tns6:AddEntityToModel"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage">
    <wsdl:part name="parameters" element="tns6:AddEntityToModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_Faul
tMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage">
    <wsdl:part name="parameters" element="tns6:BulkSwitchActiveOrValidate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFa
ult_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault
_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage">
    <wsdl:part name="parameters" element="tns6:BulkSwitchActiveOrValidateResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault_Faul
tMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage">
    <wsdl:part name="parameters" element="tns6:CheckPathInMethodInstances"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault
_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage">
    <wsdl:part name="parameters" element="tns6:CheckPathInMethodInstancesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMe
ssage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns6:ClearLocalizedNames"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns6:ClearLocalizedNamesResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_InputMessage">
    <wsdl:part name="parameters" element="tns6:ClearProperties"/>
  </wsdl:message>

```



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    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns6:ClearPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage">
    <wsdl:part name="parameters" element="tns6:CopyAclAcrossChildren"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage">
    <wsdl:part name="parameters" element="tns6:CopyAclAcrossChildrenResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExceptionFault
_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage">
    <wsdl:part name="parameters" element="tns6:CopyAclAcrossChildrenForSetting"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns6:CopyAclAcrossChildrenForSettingResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage">
    <wsdl:part name="parameters" element="tns6:CopyAclToSetting"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns6:CopyAclToSettingResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_InputMessage">
    <wsdl:part name="parameters" element="tns6:Deactivate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_Deactivate_OutputMessage">
    <wsdl:part name="parameters" element="tns6:DeactivateResponse"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_InputMessage">
    <wsdl:part name="parameters" element="tns6:Delete"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_OutputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExce
ptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMe
ssage">
    <wsdl:part name="parameters"
element="tns6:DeleteAssociationReferenceFromAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Invalid
OperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Metadat
aExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputM
essage">
    <wsdl:part name="parameters"
element="tns6:DeleteAssociationReferenceFromAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRan
geExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateF
ault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteDefaultValueForTypeDescriptor"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOperationEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionS
tateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteDefaultValueForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteNoCascade"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteNoCascadeResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault
_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteProxyAssemblyForLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns6:DeleteProxyAssemblyForLobSystemResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_InputMessage">
    <wsdl:part name="parameters" element="tns6:EntityCreate"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns6:EntityCreateResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_InputMessage">
    <wsdl:part name="parameters" element="tns6:ExportPackage"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_OutputMessage">
    <wsdl:part name="parameters" element="tns6:ExportPackageResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns6:GenerateProxyAssemblyForLobSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GenerateProxyAssemblyForLobSystemResponse"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAccessControlEntries"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAccessControlEntriesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>

```

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetActionById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetActionByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetActionParameterById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_Fau
ltMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetActionParameterByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetActionParametersForAction"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetActionParametersForActionResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessag
e">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage">
        <wsdl:part name="parameters" element="tns6:GetActionsForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultM
essage">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage">
        <wsdl:part name="parameters" element="tns6:GetActionsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessa
ge">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage">
        <wsdl:part name="parameters" element="tns6:GetAllLocalizedNames"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllLocalizedNamesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllLocalizedNamesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage">
    <wsdl:part name="parameters"
element="tns6:GetAllLocalizedNamesForMetadataObjectStructResponse"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:AccessDeniedException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllPartitionIds"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllPartitionIdsResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllProperties"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllPropertiesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionSt
ateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAllPropertiesForMetadataObjectStruct"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperati
onExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExcept
ionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns6:GetAllPropertiesForMetadataObjectStructResponse"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationGroupById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationGroupByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationGroupsForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationGroupsForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationMembersInRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationMembersInRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationReferencesForAssociationGroup"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage">
    <wsdl:part name="parameters"
element="tns6:GetAssociationReferencesForAssociationGroupResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationsForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationsForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationsForEntityAndRole"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationsForEntityAndRoleResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultM
essage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationsForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_F
aultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetAssociationsForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedException
Fault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:AccessDeniedException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetCacheInvalidationRecordsSince"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetCacheInvalidationRecordsSinceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage">
    >
      <wsdl:part name="parameters" element="tns6:GetChildTypeDescriptorsForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage">
    >
      <wsdl:part name="parameters"
element="tns6:GetChildTypeDescriptorsForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters"
element="tns6:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters"
element="tns6:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetDataClassById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>

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    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_OutputMessage">
      <wsdl:part name="parameters" element="tns6:GetDataClassByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMe
ssage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_Fau
ltMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_FaultMe
ssage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage">
      <wsdl:part name="parameters" element="tns6:GetDataClassesForSystem"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExceptionFault
_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault_Fa
ultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
      <wsdl:part name="parameters" element="tns6:GetDataClassesForSystemResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFau
lt_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptio
nFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetDefaultValuesForTypeDescriptor"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetDefaultValuesForTypeDescriptorResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntitiesForAssociationAndRole"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStat
eFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntitiesForAssociationAndRoleResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntitiesForSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntitiesForSystemResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage">
      <wsdl:part name="parameters" element="tns6:GetEntitiesLikeNameAndNamespace"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage">
      <wsdl:part name="parameters" element="tns6:GetEntitiesLikeNameAndNamespaceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntitiesReferencedByModelId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExcepti
onFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntitiesReferencedByModelIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntityById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>

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</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_OutputMessage">
  <wsdl:part name="parameters" element="tns6:GetEntityByIdResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage"
">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultM
essage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_InputMessage">
  <wsdl:part name="parameters" element="tns6:GetEntityCount"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMes
sage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessag
e">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_OutputMessage">
  <wsdl:part name="parameters" element="tns6:GetEntityCountResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntOutOfRangeExceptionFault_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_BdcExc
eptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputM
essage">
    <wsdl:part name="parameters"
element="tns6:GetEntityNameAndNamespacesForAssociationAndRole"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Invali
dOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Metada
taExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Output
Message">
    <wsdl:part name="parameters"
element="tns6:GetEntityNameAndNamespacesForAssociationAndRoleResponse"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntityWithNameAndNamespace"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntityWithNameAndNamespaceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentExcept
ionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfR
angeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionSt
ateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetEntityWithNameAndNamespaceAndVersion"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InvalidOperati
onExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_MetadataExcept
ionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage"
>

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        <wsdl:part name="parameters"
element="tns6:GetEntityWithNameAndNamespaceAndVersionResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentExcept
ionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullEx
ceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfR
angeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionSt
ateFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage">
        <wsdl:part name="parameters" element="tns6:GetFieldTypeDescriptorsByMethodInstance"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperati
onExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExcept
ionStateFault_FaultMessage">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage"
>
        <wsdl:part name="parameters"
element="tns6:GetFieldTypeDescriptorsByMethodInstanceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetFilterDescriptorById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetFilterDescriptorByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetFilterDescriptorsForMethod"/>
    </wsdl:part>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetFilterDescriptorsForMethodResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage"
>
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetIdentifierById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetIdentifierByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMe
ssage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetIdentifiersForEntity"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetIdentifiersForEntityResponse"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetImportProgress"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetImportProgressResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLevelForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLevelForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemAllAssembliesBytes"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExcepti
onFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemAllAssembliesBytesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_FaultMessa
ge">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage
">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:OutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemByName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemByNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeException
Fault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:OutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFault_Fau
ltMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemDataByLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemDataByLobSystemResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemInstanceById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemInstanceByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemInstancesForLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemInstancesForLobSystemResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExcepti
onStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessa
ge">
    <wsdl:part name="parameters" element="tns6:GetLobSystemProxyAssemblyBytesByLobSystemId"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMess
age">
    <wsdl:part name="parameters"
element="tns6:GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMess
age">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemsLikeName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetLobSystemsLikeNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_B
dcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nputMessage">
    <wsdl:part name="parameters"
element="tns6:GetLobSystemsReferencedByEntitiesAssociatedWithModel"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_M
etadataExceptionStateFault_FaultMessage">

```

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_O
utputMessage">
    <wsdl:part name="parameters"
element="tns6:GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodInstanceById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodInstanceByIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExceptionFa
ult_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodInstancesForDataClass"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperationExcepti
onFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateF
ault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodInstancesForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_Fau
ltMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodInstancesForMethod"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFaul
t_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodInstancesForMethodResponse"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodsForDataClass"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetMethodsForDataClassResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetModelById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetModelByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage"
">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetModelByName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_OutputMessage">

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        <wsdl:part name="parameters" element="tns6:GetModelByNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage">
        <wsdl:part name="parameters" element="tns6:GetModelsByEntityId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage">
        <wsdl:part name="parameters" element="tns6:GetModelsByEntityIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_InputMessage">
      <wsdl:part name="parameters" element="tns6:GetModelsByName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_OutputMessage">
      <wsdl:part name="parameters" element="tns6:GetModelsByNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_InputMessage">
      <wsdl:part name="parameters" element="tns6:GetParameterById"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetParameterByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetParametersForMethod"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetParametersForMethodResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetRootTypeDescriptorForParameter"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetRootTypeDescriptorForParameterResponse"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetServiceApplicationId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetServiceApplicationIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentException
Fault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionState
Fault_FaultMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetSystemUtilityTypeNameForLobSystem"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage">
    <wsdl:part name="parameters"
element="tns6:GetSystemUtilityTypeNameForLobSystemResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetTypeDescriptorById"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault_Faul
tMessage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetTypeDescriptorByIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentN
ullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_BdcExcept
ionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMess
age">
    <wsdl:part name="parameters"
element="tns6:GetTypeDescriptorsByNameAndLevelForParameter"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOp
erationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadateE
xceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMes
sage">
    <wsdl:part name="parameters"
element="tns6:GetTypeDescriptorsByNameAndLevelForParameterResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRan
geExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStat
eFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetTypeDescriptorsForFilterDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperation
ExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage">
    <wsdl:part name="parameters"
element="tns6:GetTypeDescriptorsForFilterDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionState
Fault_FaultMessage">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetTypeReflectorTypeNameForParameter"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataException
StateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage">
    <wsdl:part name="parameters"
element="tns6:GetTypeReflectorTypeNameForParameterResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage">
    <wsdl:part name="parameters" element="tns6:GetXmlSchemaForView"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultM
essage">

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    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage">
    <wsdl:part name="parameters" element="tns6:GetXmlSchemaForViewResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_HaveRights_InputMessage">
    <wsdl:part name="parameters" element="tns6:HaveRights"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_HaveRights_OutputMessage">
    <wsdl:part name="parameters" element="tns6:HaveRightsResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_InputMessage">
      <wsdl:part name="parameters" element="tns6:ImportPackage"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_FaultMess
age">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage
">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_OutputMessage">
      <wsdl:part name="parameters" element="tns6:ImportPackageResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
      <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_Fault
Message">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_F
aultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_Fault
Message">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage">
      <wsdl:part name="parameters" element="tns6:ImportPackageWithProgress"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns6:ImportPackageWithProgressResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage">
    <wsdl:part name="parameters" element="tns6:IsMethodInstantiated"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>

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    <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage">
      <wsdl:part name="parameters" element="tns6:IsMethodInstantiatedResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptio
nFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExce
ptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRan
geExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStat
eFault_FaultMessage">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage">
      <wsdl:part name="parameters" element="tns6:IsParameterReferencedByMethodInstance"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperati
onExceptionFault_FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptio
nStateFault_FaultMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage">
      <wsdl:part name="parameters"
element="tns6:IsParameterReferencedByMethodInstanceResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessa
ge">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultM
essage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectCreateResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectMergeXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_
FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectMergeXmlResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectReadXml"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectReadXmlResponse"/>
  </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault
_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectWriteXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFault_Fau
ltMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage">
    <wsdl:part name="parameters" element="tns6:MetadataObjectWriteXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionStateFaul
t_FaultMessage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage">

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    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_InputMessage">
    <wsdl:part name="parameters" element="tns6:ModelReadXml"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_OutputMessage">
    <wsdl:part name="parameters" element="tns6:ModelReadXmlResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage"
>
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:AccessDeniedException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns6:ReadSlicedXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns6:ReadSlicedXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage">
    <wsdl:part name="parameters" element="tns6:RemoveEntityFromModel"/>
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_Faul
tMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage">
    <wsdl:part name="parameters" element="tns6:RemoveEntityFromModelResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage">
    <wsdl:part name="parameters" element="tns6:RemoveLocalizedName"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage">
    <wsdl:part name="parameters" element="tns6:RemoveLocalizedNameResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage"
">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_InputMessage">
        <wsdl:part name="parameters" element="tns6:RemoveProperty"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessag
e">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_OutputMessage">
        <wsdl:part name="parameters" element="tns6:RemovePropertyResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
">

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    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage">
    <wsdl:part name="parameters" element="tns6:SaveLocalizedName"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_Fault
Message">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage">
    <wsdl:part name="parameters" element="tns6:SaveLocalizedNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_InputMessage">
    <wsdl:part name="parameters" element="tns6:SaveProperty"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
  </wsdl:message>
  <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
  </wsdl:message>
  <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_OutputMessage">
    <wsdl:part name="parameters" element="tns6:SavePropertyResponse"/>

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage">
        <wsdl:part name="parameters" element="tns6:SetAccessControlEntries"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_Fa
ultMessage">
        <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage">
        <wsdl:part name="parameters" element="tns6:SetAccessControlEntriesResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_Fault
Message">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_Fault
Message">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns6:SetDefaultActionForEntity"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_
FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns6:SetDefaultActionForEntityResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_
FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns6:SetDefaultValuesForTypeDescriptor"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>

```

```

    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns6:SetDefaultValuesForTypeDescriptorResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionF
ault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage">
    <wsdl:part name="parameters" element="tns6:SetLobSystemDataByLobSystemId"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationExceptio
nFault_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage">
    <wsdl:part name="parameters" element="tns6:SetLobSystemDataByLobSystemIdResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>

```



```

    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:part>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage">
    <wsdl:part name="parameters" element="tns6:TypeDescriptorCreate"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns6:TypeDescriptorCreateResponse"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:part>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMes
sage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:part>
    </wsdl:message>

```

```

    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage">
      <wsdl:part name="parameters" element="tns6:TypeDescriptorMergeXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_
FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
      <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage">
      <wsdl:part name="parameters" element="tns6:TypeDescriptorMergeXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFaul
t_FaultMessage">
      <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_FaultMess
age">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault_Fault
Message">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFault_
FaultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_FaultMess
age">
      <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage">
      <wsdl:part name="parameters" element="tns6:TypeDescriptorReadXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptionFault_F
aultMessage">
      <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_Faul
tMessage">

```

```

    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage">
  <wsdl:part name="parameters" element="tns6:TypeDescriptorReadXmlResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault
_FaultMessage">
  <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Update_InputMessage">
  <wsdl:part name="parameters" element="tns6:Update"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage">
  <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Update_OutputMessage">
  <wsdl:part name="parameters" element="tns6:UpdateResponse"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_FaultMessage
">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:AccessDeniedException"/>
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentException"/>
</wsdl:message>

```

```

    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentNullException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:ArgumentOutOfRangeException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="tns:BdcExceptionState"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns6:WriteSlicedXml"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:tns3="Microsoft.BusinessData.SharePoint" name="detail"
element="tns3:MetadataException"/>
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns6:WriteSlicedXmlResponse"/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:tns5="Microsoft.SharePoint.BusinessData" name="detail"
element="tns5:PackageFormatExceptionState"/>
    </wsdl:message>
</wsdl:definitions>

```

## 7 Appendix B: Full XML Schema

Schema name	Prefix	Section
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure</a>	tns	<a href="#">7.1</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel</a>	tns1	<a href="#">7.2</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime">http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime</a>	tns2	<a href="#">7.3</a>
Microsoft.BusinessData.SharePoint	tns3	<a href="#">7.4</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants">http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants</a>	tns4	<a href="#">7.5</a>
Microsoft.SharePoint.BusinessData	tns5	<a href="#">7.6</a>
<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	q9	<a href="#">7.7</a>
<a href="http://schemas.microsoft.com/2003/10/Serialization/">http://schemas.microsoft.com/2003/10/Serialization/</a>	ser	<a href="#">7.8</a>
<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	q1	<a href="#">7.9</a>
<a href="http://www.microsoft.com/Office/2009/BusinessDataCatalog">http://www.microsoft.com/Office/2009/BusinessDataCatalog</a>	tns6	<a href="#">7.10</a>

For ease of implementation, the following sections provide the full XML schema for this protocol.

### 7.1

#### <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure> Schema

```
<?xml version="1.0"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="BdcExceptionState">
    <xs:sequence>
      <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
        type="xs:string"/>
      <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
        type="xs:string"/>
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="BdcExceptionState" nillable="true" type="tns:BdcExceptionState"/>
  <xs:complexType name="AccessDeniedExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BdcExceptionState">
        <xs:sequence>
          <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="SecurableObjectName" nillable="true"
            type="xs:string"/>
          <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true"
            type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AccessDeniedExceptionState" nillable="true" type="tns:AccessDeniedExceptionState"/>
</xs:schema>
```

```

        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AccessDeniedExceptionState" nillable="true"
type="tns:AccessDeniedExceptionState"/>
  <xs:complexType name="AccessDeniedException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BdcException"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AccessDeniedException" nillable="true" type="tns:AccessDeniedException"/>
  <xs:complexType name="BdcException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
base="q1:Exception"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="BdcException" nillable="true" type="tns:BdcException"/>
  <xs:simpleType name="BdcRights">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None"/>
          <xs:enumeration value="Execute"/>
          <xs:enumeration value="Edit"/>
          <xs:enumeration value="SetPermissions"/>
          <xs:enumeration value="UseInBusinessDataInLists"/>
          <xs:enumeration value="SelectableInClients"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="BdcRights" nillable="true" type="tns:BdcRights"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
</xs:schema>

```

## 7.2

### <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel> del Schema

```

<?xml version="1.0"?>
<xs:schema
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="TypeDescriptorFlags">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None"/>
          <xs:enumeration value="CreatorField"/>
          <xs:enumeration value="UpdaterField"/>
          <xs:enumeration value="PreUpdaterField"/>
          <xs:enumeration value="IsCollection"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>

```

```

        <xs:enumeration value="ReadOnly"/>
        <xs:enumeration value="Significant"/>
        <xs:enumeration value="IsSortInput"/>
    </xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:element name="TypeDescriptorFlags" nillable="true" type="tns1:TypeDescriptorFlags"/>
<xs:simpleType name="DirectionType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="In"/>
        <xs:enumeration value="Out"/>
        <xs:enumeration value="InOut"/>
        <xs:enumeration value="Return"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="DirectionType" nillable="true" type="tns1:DirectionType"/>
<xs:simpleType name="FilterType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Comparison"/>
        <xs:enumeration value="LastId"/>
        <xs:enumeration value="Limit"/>
        <xs:enumeration value="PageNumber"/>
        <xs:enumeration value="Password"/>
        <xs:enumeration value="SsoTicket"/>
        <xs:enumeration value="Timestamp"/>
        <xs:enumeration value="UserContext"/>
        <xs:enumeration value="Username"/>
        <xs:enumeration value="UserProfile"/>
        <xs:enumeration value="Wildcard"/>
        <xs:enumeration value="Input"/>
        <xs:enumeration value="Output"/>
        <xs:enumeration value="InputOutput"/>
        <xs:enumeration value="Batching"/>
        <xs:enumeration value="BatchingTermination"/>
        <xs:enumeration value="UserCulture"/>
        <xs:enumeration value="ActivityId"/>
        <xs:enumeration value="Sorting"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="FilterType" nillable="true" type="tns1:FilterType"/>
<xs:simpleType name="MethodInstanceType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Finder"/>
        <xs:enumeration value="SpecificFinder"/>
        <xs:enumeration value="GenericInvoker"/>
        <xs:enumeration value="IdEnumerator"/>
        <xs:enumeration value="Scalar"/>
        <xs:enumeration value="AccessChecker"/>
        <xs:enumeration value="Creator"/>
        <xs:enumeration value="Updater"/>
        <xs:enumeration value="Deleter"/>
        <xs:enumeration value="ChangedIdEnumerator"/>
        <xs:enumeration value="DeletedIdEnumerator"/>
        <xs:enumeration value="AssociationNavigator"/>
        <xs:enumeration value="Associator"/>
        <xs:enumeration value="Disassociator"/>
        <xs:enumeration value="StreamAccessor"/>
        <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
    </xs:restriction>
</xs:simpleType>

```

```

    <xs:enumeration value="BulkSpecificFinder"/>
    <xs:enumeration value="BulkAssociatedIdEnumerator"/>
    <xs:enumeration value="BulkAssociationNavigator"/>
    <xs:enumeration value="BulkIdEnumerator"/>
    <xs:enumeration value="EventSubscriber"/>
    <xs:enumeration value="EventUnsubscriber"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="MethodInstanceType" nillable="true" type="tns1:MethodInstanceType"/>
<xs:simpleType name="SystemType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Database"/>
    <xs:enumeration value="WebService"/>
    <xs:enumeration value="Custom"/>
    <xs:enumeration value="Wcf"/>
    <xs:enumeration value="DotNetAssembly"/>
    <xs:enumeration value="OData"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="SystemType" nillable="true" type="tns1:SystemType"/>
</xs:schema>

```

### 7.3 <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime> Schema

```

<?xml version="1.0"?>
<xs:schema
  xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="CacheUsage">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Default"/>
      <xs:enumeration value="Online"/>
      <xs:enumeration value="Cached"/>
      <xs:enumeration value="Offline"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="CacheUsage" nillable="true" type="tns2:CacheUsage"/>
  <xs:complexType name="ProxyGenerationResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ProxyGenerationResult" nillable="true"
  type="tns2:ProxyGenerationResult"/>
</xs:schema>

```

### 7.4 Microsoft.BusinessData.SharePoint Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:tns3="Microsoft.BusinessData.SharePoint" elementFormDefault="qualified"
  targetNamespace="Microsoft.BusinessData.SharePoint"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

```



```

<xs:complexType name="MetadataException">
  <xs:sequence>
    <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
    <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="MetadataException" nillable="true" type="tns3:MetadataException"/>
</xs:schema>

```

## 7.5

### <http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administration.Client.Constants> Schema

```

<?xml version="1.0"?>
<xs:schema
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Ad
ministration.Client.Constants" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllLobSystemsInModel"/>
      <xs:enumeration value="OwnedLobSystemsInModel"/>
      <xs:enumeration value="SharedLobSystemsInModel"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true"
type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
  <xs:simpleType name="EntityConstants.EntitiesInModelQuery">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllEntitiesInModel"/>
      <xs:enumeration value="OwnedEntitiesInModel"/>
      <xs:enumeration value="SharedEntitiesInModel"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true"
type="tns4:EntityConstants.EntitiesInModelQuery"/>
</xs:schema>

```

## 7.6 Microsoft.SharePoint.BusinessData Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:tns5="Microsoft.SharePoint.BusinessData"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified" targetNamespace="Microsoft.SharePoint.BusinessData"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="InvalidMetadataObjectExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">

```

```

        <xs:sequence>
          <xs:element minOccurs="0" name="InvalidFieldName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="InvalidMetadataObjectExceptionState" nillable="true"
type="tns5:InvalidMetadataObjectExceptionState"/>
  <xs:complexType name="DuplicateMetadataObjectExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
        <xs:sequence>
          <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="DuplicateMetadataObjectExceptionState" nillable="true"
type="tns5:DuplicateMetadataObjectExceptionState"/>
  <xs:complexType name="ExceededMetadataObjectLimitExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
        <xs:sequence>
          <xs:element minOccurs="0" name="Limit" type="xs:int"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true"
type="tns5:ExceededMetadataObjectLimitExceptionState"/>
  <xs:complexType name="ConcurrentModificationExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
        <xs:sequence>
          <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ConcurrentModificationExceptionState" nillable="true"
type="tns5:ConcurrentModificationExceptionState"/>
  <xs:complexType name="InvalidMetadataPropertyExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
        <xs:sequence>
          <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>

```

```

        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="InvalidMetadataPropertyExceptionState" nillable="true"
type="tns5:InvalidMetadataPropertyExceptionState"/>
  <xs:complexType name="MetadataObjectNotFoundExceptionState">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:tns3="Microsoft.BusinessData.SharePoint"
base="tns3:MetadataException">
        <xs:sequence>
          <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="MetadataObjectNotFoundExceptionState" nillable="true"
type="tns5:MetadataObjectNotFoundExceptionState"/>
  <xs:simpleType name="PackageContents">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None"/>
          <xs:enumeration value="Model"/>
          <xs:enumeration value="LocalizedNames"/>
          <xs:enumeration value="Permissions"/>
          <xs:enumeration value="Properties"/>
          <xs:enumeration value="InlineProxies"/>
          <xs:enumeration value="All"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="PackageContents" nillable="true" type="tns5:PackageContents"/>
  <xs:complexType name="MetadataObjectStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
      <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="MetadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
  <xs:complexType name="ActionStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="tns5:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
          <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
          <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ActionStruct" nillable="true" type="tns5:ActionStruct"/>
  <xs:complexType name="TypeDescriptorStruct">

```

```

<xs:complexContent mixed="false">
  <xs:extension base="tns5:MetadataObjectStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="associationReferenceEntityNamespace"
nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
      <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
      <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
      <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="tns1:TypeDescriptorFlags"/>
      <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="TypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
<xs:complexType name="IdentifierStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="IdentifierStruct" nillable="true" type="tns5:IdentifierStruct"/>
<xs:complexType name="LobSystemInstanceStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="LobSystemInstanceStruct" nillable="true"
type="tns5:LobSystemInstanceStruct"/>
<xs:complexType name="ActionParameterStruct">
  <xs:complexContent mixed="false">

```

```

    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ActionParameterStruct" nillable="true"
type="tns5:ActionParameterStruct"/>
<xs:complexType name="AdministrationMetadataCatalogStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="AdministrationMetadataCatalogStruct" nillable="true"
type="tns5:AdministrationMetadataCatalogStruct"/>
<xs:complexType name="ParameterStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="direction" type="tns1:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ParameterStruct" nillable="true" type="tns5:ParameterStruct"/>
<xs:complexType name="AssociationGroupStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationEntityNamespaces" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationIds" nillable="true" type="q9:ArrayOfunsignedInt"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="associationNames" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="AssociationGroupStruct" nillable="true"
type="tns5:AssociationGroupStruct"/>
<xs:complexType name="DataClassStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="active" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
        <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q1:Version"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="DataClassStruct" nillable="true" type="tns5:DataClassStruct"/>
<xs:complexType name="EntityStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:DataClassStruct">
            <xs:sequence>
                <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="tns2:CacheUsage"/>
                <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
                <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="EntityStruct" nillable="true" type="tns5:EntityStruct"/>
<xs:complexType name="FilterDescriptorStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element minOccurs="0" name="filterType" type="tns1:FilterType"/>
<xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="FilterDescriptorStruct" nillable="true"
type="tns5:FilterDescriptorStruct"/>
<xs:complexType name="AssociationStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:MethodInstanceStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q9:ArrayOfString"/>
                <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q9:ArrayOfString"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AssociationStruct" nillable="true" type="tns5:AssociationStruct"/>
<xs:complexType name="MethodInstanceStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="methodInstanceType" type="tns1:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="MethodInstanceStruct" nillable="true" type="tns5:MethodInstanceStruct"/>
<xs:complexType name="LobSystemStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="systemType" type="tns1:SystemType"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="LobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
<xs:complexType name="MethodStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
                <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="MethodStruct" nillable="true" type="tns5:MethodStruct"/>
<xs:complexType name="ModelStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns5:MetadataObjectStruct">
            <xs:sequence/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ModelStruct" nillable="true" type="tns5:ModelStruct"/>
<xs:complexType name="PackageFormatExceptionState">
    <xs:sequence>
        <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:tns3="Microsoft.BusinessData.SharePoint" minOccurs="0"
name="SerializedInnerSystemException" nillable="true" type="tns3:MetadataException"/>
        <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="PackageFormatExceptionState" nillable="true"
type="tns5:PackageFormatExceptionState"/>
    <xs:complexType name="ArrayOfLocalizedNameStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="tns5:LocalizedNameStruct"/>
        </xs:sequence>
    </xs:complexType>

```

```

<xs:element name="ArrayOfLocalizedNameStruct" nillable="true"
type="tns5:ArrayOfLocalizedNameStruct"/>
<xs:complexType name="LocalizedNameStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="vIue" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="LocalizedNameStruct" nillable="true" type="tns5:LocalizedNameStruct"/>
<xs:complexType name="ArrayOfPropertyStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
type="tns5:PropertyStruct"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfPropertyStruct" nillable="true"
type="tns5:ArrayOfPropertyStruct"/>
<xs:complexType name="PropertyStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="PropertyStruct" nillable="true" type="tns5:PropertyStruct"/>
<xs:complexType name="ComplexValueStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
    <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true"
type="xs:anyType"/>
    <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName"
nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ComplexValueStruct" nillable="true" type="tns5:ComplexValueStruct"/>
<xs:complexType name="DefaultValueStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns5:ComplexValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodInstanceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="DefaultValueStruct" nillable="true" type="tns5:DefaultValueStruct"/>
<xs:complexType name="ArrayOfAccessControlEntryStruct">
  <xs:sequence>

```



```

        <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="tns5:AccessControlEntryStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAccessControlEntryStruct" nillable="true"
type="tns5:ArrayOfAccessControlEntryStruct"/>
<xs:complexType name="AccessControlEntryStruct">
    <xs:sequence>
        <xs:element minOccurs="0" name="principalBinaryForm" nillable="true"
type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="principalDisplayName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="AccessControlEntryStruct" nillable="true"
type="tns5:AccessControlEntryStruct"/>
<xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="tns5:CacheInvalidationRecordStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true"
type="tns5:ArrayOfCacheInvalidationRecordStruct"/>
<xs:complexType name="CacheInvalidationRecordStruct">
    <xs:sequence>
        <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
        <xs:element minOccurs="0" name="counter" type="xs:int"/>
        <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
        <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="CacheInvalidationRecordStruct" nillable="true"
type="tns5:CacheInvalidationRecordStruct"/>
<xs:complexType name="ArrayOfModelStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="tns5:ModelStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfModelStruct" nillable="true" type="tns5:ArrayOfModelStruct"/>
<xs:complexType name="ArrayOfLobSystemStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="tns5:LobSystemStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLobSystemStruct" nillable="true"
type="tns5:ArrayOfLobSystemStruct"/>
<xs:complexType name="ArrayOfLobSystemInstanceStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="tns5:LobSystemInstanceStruct"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true"
type="tns5:ArrayOfLobSystemInstanceStruct"/>
<xs:complexType name="ArrayOfDataClassStruct">

```

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="tns5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfDataClassStruct" nillable="true"
type="tns5:ArrayOfDataClassStruct"/>
  <xs:complexType name="ArrayOfEntityStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfEntityStruct" nillable="true" type="tns5:ArrayOfEntityStruct"/>
  <xs:complexType name="ArrayOfActivationErrorRecordStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="tns5:ActivationErrorRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true"
type="tns5:ArrayOfActivationErrorRecordStruct"/>
  <xs:complexType name="ActivationErrorRecordStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingEntityName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingEntityVersion" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingMethodName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingParameterName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
      <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>

```

```

    <xs:element name="ActivationErrorRecordStruct" nillable="true"
type="tns5:ActivationErrorRecordStruct"/>
    <xs:complexType name="ArrayOfActionStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="tns5:ActionStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfActionStruct" nillable="true" type="tns5:ArrayOfActionStruct"/>
    <xs:complexType name="ArrayOfActionParameterStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="tns5:ActionParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfActionParameterStruct" nillable="true"
type="tns5:ArrayOfActionParameterStruct"/>
    <xs:complexType name="ArrayOfIdentifierStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
type="tns5:IdentifierStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfIdentifierStruct" nillable="true"
type="tns5:ArrayOfIdentifierStruct"/>
    <xs:complexType name="ArrayOfMethodStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
type="tns5:MethodStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfMethodStruct" nillable="true" type="tns5:ArrayOfMethodStruct"/>
    <xs:complexType name="ArrayOfFilterDescriptorStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="tns5:FilterDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfFilterDescriptorStruct" nillable="true"
type="tns5:ArrayOfFilterDescriptorStruct"/>
    <xs:complexType name="ArrayOfMethodInstanceStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="tns5:MethodInstanceStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfMethodInstanceStruct" nillable="true"
type="tns5:ArrayOfMethodInstanceStruct"/>
    <xs:complexType name="ArrayOfParameterStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="tns5:ParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfParameterStruct" nillable="true"
type="tns5:ArrayOfParameterStruct"/>
    <xs:complexType name="ArrayOfTypeDescriptorStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="tns5:TypeDescriptorStruct"/>

```

```

    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfTypeDescriptorStruct" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
  <xs:complexType name="ArrayOfDefaultValueStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct"
nillable="true" type="tns5:DefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfDefaultValueStruct" nillable="true"
type="tns5:ArrayOfDefaultValueStruct"/>
  <xs:complexType name="ArrayOfAssociationStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct"
nillable="true" type="tns5:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationStruct" nillable="true"
type="tns5:ArrayOfAssociationStruct"/>
  <xs:complexType name="ArrayOfAssociationMemberStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="tns5:AssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationMemberStruct" nillable="true"
type="tns5:ArrayOfAssociationMemberStruct"/>
  <xs:complexType name="AssociationMemberStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
      <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="AssociationMemberStruct" nillable="true"
type="tns5:AssociationMemberStruct"/>
  <xs:complexType name="ArrayOfAssociationGroupStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="tns5:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationGroupStruct" nillable="true"
type="tns5:ArrayOfAssociationGroupStruct"/>
  <xs:complexType name="ArrayOfAssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="tns5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAssociationReferenceStruct" nillable="true"
type="tns5:ArrayOfAssociationReferenceStruct"/>
  <xs:complexType name="AssociationReferenceStruct">
    <xs:sequence>
      <xs:element minOccurs="0" name="_associationName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>

```

```

    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="AssociationReferenceStruct" nillable="true"
type="tns5:AssociationReferenceStruct"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import namespace="Microsoft.BusinessData.SharePoint"/>
</xs:schema>

```

## 7.7 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="q9:ArrayOfguid"/>
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="q9:ArrayOfstring"/>
  <xs:complexType name="ArrayOfunsignedInt">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedInt" nillable="true" type="q9:ArrayOfunsignedInt"/>
  <xs:complexType name="ArrayOfbase64Binary">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfbase64Binary" nillable="true" type="q9:ArrayOfbase64Binary"/>
</xs:schema>

```

## 7.8 http://schemas.microsoft.com/2003/10/Serialization/ Schema

```
<?xml version="1.0"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="ser:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="ser:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="ser:guid"/>
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName"/>
  <xs:attribute name="Id" type="xs:ID"/>
  <xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>
```

## 7.9 http://schemas.datacontract.org/2004/07/System Schema

```
<?xml version="1.0"?>
<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">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
```

```

<xs:complexType name="InvalidOperationException">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:SystemException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="InvalidOperationException" nillable="true"
type="q1:InvalidOperationException"/>
<xs:complexType name="SystemException">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:Exception"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="SystemException" nillable="true" type="q1:SystemException"/>
<xs:complexType name="Exception">
  <xs:sequence>
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
processContents="skip"/>
  </xs:sequence>
  <xs:attribute ref="ser:FactoryType"/>
</xs:complexType>
<xs:element name="Exception" nillable="true" type="q1:Exception"/>
<xs:complexType name="Version">
  <xs:sequence>
    <xs:element name="_Build" type="xs:int"/>
    <xs:element name="_Major" type="xs:int"/>
    <xs:element name="_Minor" type="xs:int"/>
    <xs:element name="_Revision" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="Version" nillable="true" type="q1:Version"/>
<xs:complexType name="ArgumentOutOfRangeException">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentOutOfRangeException" nillable="true"
type="q1:ArgumentOutOfRangeException"/>
<xs:complexType name="ArgumentException">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:SystemException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentException" nillable="true" type="q1:ArgumentException"/>
<xs:complexType name="ArgumentNullException">
  <xs:complexContent mixed="false">
    <xs:extension base="q1:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ArgumentNullException" nillable="true" type="q1:ArgumentNullException"/>
</xs:schema>

```

## 7.10 <http://www.microsoft.com/Office/2009/BusinessDataCatalog> Schema

```

<?xml version="1.0"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetServiceApplicationId">

```

```

    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceApplicationIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="GetServiceApplicationIdResult" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllPartitionIds">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllPartitionIdsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetAllPartitionIdsResult" nillable="true" type="q9:ArrayOfguid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReadSlicedXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReadSlicedXmlResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="WriteSlicedXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="WriteSlicedXmlResponse">

```



```

    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="WriteSlicedXmlResult" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="HaveRights">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="0" name="rights" type="tns:BdcRights"/>
        <xs:element minOccurs="0" name="fallBack" type="xs:boolean"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="HaveRightsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="HaveRightsResult" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllLocalizedNamesForMetadataObjectStruct">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesForMetadataObjectStructResult" nillable="true"
type="tns5:ArrayOfLocalizedNameStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllLocalizedNames">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllLocalizedNamesResponse">
    <xs:complexType>
      <xs:sequence>

```

```

        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllLocalizedNamesResult" nillable="true" type="tns5:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStruct">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesForMetadataObjectStructResult" nillable="true"
type="tns5:ArrayOfPropertyStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="merged" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAllPropertiesResult" nillable="true" type="tns5:ArrayOfPropertyStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedName">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedNameResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>

```

```

<xs:element name="ClearLocalizedNames">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearLocalizedNamesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedName">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedNameResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="SaveProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="propertyStruct" nillable="true" type="tns5:PropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SavePropertyResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="ClearProperties">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearPropertiesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveProperty">

```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemovePropertyResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="fallback" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAccessControlEntriesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAccessControlEntriesResult" nillable="true"
type="tns5:ArrayOfAccessControlEntryStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="accessControlEntries" nillable="true" type="tns5:ArrayOfAccessControlEntryStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntriesResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreateResponse">

```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="MetadataObjectCreateResult" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Update">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UpdateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="UpdateResult" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Delete">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectMergeXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectMergeXmlResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="mergedStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

</xs:element>
<xs:element name="MetadataObjectReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="readStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectWriteXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
      <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectWriteXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MetadataObjectWriteXmlResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildren">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenForSetting">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="CopyAclAcrossChildrenForSettingResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclToSetting">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyAclToSettingResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSince">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="dateTime" type="xs:dateTime"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSinceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetCacheInvalidationRecordsSinceResult" nillable="true"
type="tns5:ArrayOfCacheInvalidationRecordStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns5:AdministrationMetadataCatalogStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
            <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackageResponse">
    <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageResult" nillable="true" type="tns5:ModelStruct"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="adminStruct" nillable="true" type="tns5:AdministrationMetadataCatalogStruct"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
            <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ImportPackageWithProgressResult" nillable="true" type="tns5:ModelStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetImportProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="jobId" type="ser:guid"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetImportProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetImportProgressResult" type="xs:double"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
            <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

```



```

</xs:element>
<xs:element name="ExportPackageResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ExportPackageResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetModelById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetModelByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByIdResult" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetModelsByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetModelsByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByNameResult" nillable="true" type="tns5:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetModelByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetModelByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelByNameResult" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByEntityId">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelsByEntityIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetModelsByEntityIdResult" nillable="true" type="tns5:ArrayOfModelStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddEntityToModel">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddEntityToModelResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveEntityFromModel">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveEntityFromModelResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteNoCascade">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="metadataObjectStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteNoCascadeResponse">

```

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    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelReadXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="applicationRegistryStruct" nillable="true" type="tns5:MetadataObjectStruct"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
        <xs:element minOccurs="0" name="updateModel" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelReadXmlResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ModelReadXmlResult" nillable="true" type="tns5:ModelStruct"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult"
nillable="true" type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemAllAssembliesBytes">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLobSystemAllAssembliesBytesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLobSystemAllAssembliesBytesResult" nillable="true"
type="q9:ArrayOfbase64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

<xs:element name="GetLobSystemDataByLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemDataByLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetLobSystemDataByLobSystemId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="proxyGenerationResult" nillable="true"
type="tns2:ProxyGenerationResult"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetLobSystemDataByLobSystemIdResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="queryMode"
type="tns4:LobSystemConstants.LobSystemsInModelQuery"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult" nillable="true"
type="tns5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByName">
  <xs:complexType>

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```

    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByNameResult" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsLikeName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="searchLikeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemsLikeNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemsLikeNameResult" nillable="true" type="tns5:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemByIdResult" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>

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```

</xs:element>
<xs:element name="GetEntityCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSystemUtilityTypeNameForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSystemUtilityTypeNameForLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSystemUtilityTypeNameForLobSystemResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GenerateProxyAssemblyForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GenerateProxyAssemblyForLobSystemResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteProxyAssemblyForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteProxyAssemblyForLobSystemResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstancesForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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<xs:element name="GetLobSystemInstancesForLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstancesForLobSystemResult" nillable="true"
type="tns5:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstanceById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstanceByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetLobSystemInstanceByIdResult" nillable="true" type="tns5:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassesForSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassesForSystemResult" nillable="true" type="tns5:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDataClassByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetDataClassByIdResult" nillable="true" type="tns5:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
xmlns:tns4="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Adminis
tration.Client.Constants" minOccurs="0" name="mode"
type="tns4:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesReferencedByModelIdResult" nillable="true" type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="wildcardedNamespace" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="wildcardedName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesLikeNameAndNamespaceResult" nillable="true"
type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>

```



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        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersion">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
            <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q1:Version"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityWithNameAndNamespaceAndVersionResult" nillable="true"
type="tns5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystem">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystemResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForSystemResult" nillable="true" type="tns5:ArrayOfEntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
            <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRoleResponse">
    <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntitiesForAssociationAndRoleResult" nillable="true"
type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SetDefaultActionForEntity">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
            <xs:element minOccurs="0" name="actionName" nillable="true" type="xs:string"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetDefaultActionForEntityResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="namespaces" nillable="true" type="q9:ArrayOfstring"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="names" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetEntityByIdResult" nillable="true" type="tns5:EntityStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

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```

<xs:element name="EntityCreate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns5:EntityStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="lobSystemStruct" nillable="true" type="tns5:LobSystemStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="EntityCreateResponse">
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    <xs:sequence>
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name="EntityCreateResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Activate">
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    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ActivateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="ActivateResult" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Deactivate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeactivateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="DeactivateResult" nillable="true" type="tns5:EntityStruct"/>
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  </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidate">
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    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns5:ArrayOfEntityStruct"/>
      <xs:element minOccurs="0" name="validate" type="xs:boolean"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="modelStruct" nillable="true" type="tns5:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="BulkSwitchActiveOrValidateResult" nillable="true"
type="tns5:ArrayOfActivationErrorRecordStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStructs" nillable="true" type="tns5:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionByIdResult" nillable="true" type="tns5:ActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntity">
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    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionsForEntityResult" nillable="true" type="tns5:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="actionParameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterByIdResponse">

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    <xs:complexType>
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        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParameterByIdResult" nillable="true" type="tns5:ActionParameterStruct"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionParametersForAction">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetActionParametersForActionResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetActionParametersForActionResult" nillable="true"
type="tns5:ArrayOfActionParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetIdentifierById">
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        <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetIdentifierByIdResponse">
    <xs:complexType>
      <xs:sequence>
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name="GetIdentifierByIdResult" nillable="true" type="tns5:IdentifierStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetIdentifiersForEntity">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetIdentifiersForEntityResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetIdentifiersForEntityResult" nillable="true" type="tns5:ArrayOfIdentifierStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

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<xs:element name="GetMethodById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodByIdResult" nillable="true" type="tns5:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodsForDataClassResult" nillable="true" type="tns5:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiated">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
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minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiatedResponse">
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    <xs:sequence>
      <xs:element minOccurs="0" name="IsMethodInstantiatedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
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minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:element name="GetFilterDescriptorByIdResponse">
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      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorByIdResult" nillable="true" type="tns5:FilterDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetFilterDescriptorsForMethod">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetFilterDescriptorsForMethodResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFilterDescriptorsForMethodResult" nillable="true"
type="tns5:ArrayOfFilterDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstanceById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstanceByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstanceByIdResult" nillable="true" type="tns5:MethodInstanceStruct"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstancesForDataClass">
    <xs:complexType>
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        <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
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minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMethodInstancesForDataClassResponse">
    <xs:complexType>
      <xs:sequence>

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        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetMethodInstancesForDataClassResult" nillable="true"
type="tns5:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForMethod">
    <xs:complexType>
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minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForMethodResponse">
    <xs:complexType>
        <xs:sequence>
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name="GetMethodInstancesForMethodResult" nillable="true"
type="tns5:ArrayOfMethodInstanceStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstances">
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            <xs:element minOccurs="0" name="dottedPath" nillable="true" type="xs:string"/>
            <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="type" type="tns1:MethodInstanceType"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstancesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="CheckPathInMethodInstancesResult" type="xs:boolean"/>
            <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetParameterById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetParameterByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetParameterByIdResult" nillable="true" type="tns5:ParameterStruct"/>

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        </xs:sequence>
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</xs:element>
<xs:element name="GetParametersForMethod">
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minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethodResponse">
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name="GetParametersForMethodResult" nillable="true" type="tns5:ArrayOfParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstance">
    <xs:complexType>
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            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstanceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="IsParameterReferencedByMethodInstanceResult"
type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameter">
    <xs:complexType>
        <xs:sequence>
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name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeReflectorTypeNameForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetTypeReflectorTypeNameForParameterResult"
nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

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```

    </xs:complexType>
  </xs:element>
  <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
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        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="GetFieldTypeDescriptorsByMethodInstance">
    <xs:complexType>
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type="xs:string"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="entityStruct" nillable="true" type="tns5:EntityStruct"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetFieldTypeDescriptorsByMethodInstanceResult" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeDescriptorById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeDescriptorByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorByIdResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRootTypeDescriptorForParameter">
    <xs:complexType>
      <xs:sequence>
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        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRootTypeDescriptorForParameterResponse">
    <xs:complexType>
      <xs:sequence>

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        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetRootTypeDescriptorForParameterResult" nillable="true"
type="tns5:TypeDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter">
    <xs:complexType>
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            <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="level" type="xs:int"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsByNameAndLevelForParameterResult" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetChildTypeDescriptorsForTypeDescriptorResult" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsForFilterDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsForFilterDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetTypeDescriptorsForFilterDescriptorResult" nillable="true"
type="tns5:ArrayOfTypeDescriptorStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:element name="GetDefaultValuesForTypeDescriptor">
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      <xs:sequence>
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minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence>
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name="GetDefaultValuesForTypeDescriptorResult" nillable="true"
type="tns5:ArrayOfDefaultValueStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDefaultValuesForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="defaultValueStruct" nillable="true" type="tns5:DefaultValueStruct"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteDefaultValueForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteDefaultValueForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLevelForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="typeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetLevelForTypeDescriptorResponse">

```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TypeDescriptorCreate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="rawValues" nillable="true" type="tns5:TypeDescriptorStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TypeDescriptorCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorCreateResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TypeDescriptorMergeXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
        <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TypeDescriptorMergeXmlResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorMergeXmlResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfString"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TypeDescriptorReadXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="xml" nillable="true" type="xs:string"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="packageContents" type="tns5:PackageContents"/>
        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parameterStruct" nillable="true" type="tns5:ParameterStruct"/>

```

```

        <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="parentTypeDescriptorStruct" nillable="true" type="tns5:TypeDescriptorStruct"/>
        <xs:element minOccurs="0" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorReadXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="TypeDescriptorReadXmlResult" nillable="true" type="tns5:TypeDescriptorStruct"/>
            <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="errors" nillable="true" type="q9:ArrayOfstring"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationByIdResult" nillable="true" type="tns5:AssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForEntityAndRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
            <xs:element minOccurs="0" name="activeOnly" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForEntityAndRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForEntityAndRoleResult" nillable="true"
type="tns5:ArrayOfAssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForDataClass">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="dataClassId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForDataClassResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForDataClassResult" nillable="true"
type="tns5:ArrayOfAssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForMethod">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForMethodResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationsForMethodResult" nillable="true" type="tns5:ArrayOfAssociationStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationMembersInRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationMembersInRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationMembersInRoleResult" nillable="true"
type="tns5:ArrayOfAssociationMemberStruct"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="performErrorCheck" type="xs:boolean"/>
            <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupByIdResponse">
    <xs:complexType>

```

```

    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupByIdResult" nillable="true" type="tns5:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationGroupsForEntityResult" nillable="true"
type="tns5:ArrayOfAssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="GetAssociationReferencesForAssociationGroupResult" nillable="true"
type="tns5:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationGroupStruct" nillable="true" type="tns5:AssociationGroupStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddAssociationReferenceToAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="AddAssociationReferenceToAssociationGroupResult" nillable="true"
type="tns5:AssociationGroupStruct"/>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns5:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteAssociationReferenceFromAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="associationReferenceStruct" nillable="true" type="tns5:AssociationReferenceStruct"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="partitionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
<xs:element name="GetXmlSchemaForView">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns5="Microsoft.SharePoint.BusinessData" minOccurs="0"
name="methodInstanceStruct" nillable="true" type="tns5:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetXmlSchemaForViewResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetXmlSchemaForViewResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"/>
<xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"/>
<xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"/>
<xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Administ
ration.Client.Constants"/>
<xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
<xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
<xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
<xs:import namespace="Microsoft.SharePoint.BusinessData"/>
</xs:schema>

```

## 8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft Office 2010 suites
- Microsoft SharePoint Foundation 2010
- Microsoft Office 2013
- Microsoft SharePoint Foundation 2013

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 2.2.4:](#) SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and are understood by the .NET Framework.

[<2> Section 2.2.4.4:](#) In SharePoint Foundation 2010, only the restriction that the index be greater than or equal to zero is enforced.

[<3> Section 2.2.4.21:](#) SharePoint Foundation 2010 always sets the values to zero on return.

[<4> Section 2.2.4.22:](#) In SharePoint Foundation 2010, this GUID can be non-empty.

[<5> Section 2.2.4.31:](#) In SharePoint Foundation 2010, this element is ignored, and the **EntityCreate** operation always sets the **description** element to NULL in the response.

[<6> Section 2.2.4.41:](#) In SharePoint Foundation 2010, this can be other values.

[<7> Section 2.2.4.51:](#) SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and are understood by the .NET Framework.

[<8> Section 2.2.4.53:](#) The culture names used by SharePoint Foundation 2010 are as specified in [\[MSDN-SharePointSDK\]](#).

[<9> Section 2.2.4.53:](#) SharePoint Foundation 2010 requires this data type to conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and to be understood by the .NET Framework.

[<10> Section 2.2.4.53:](#) SharePoint Foundation 2010 requires that the data type to conform to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and is understood by the .NET Framework.

<11> [Section 2.2.4.53](#): The SharePoint Foundation 2010 module that performs the mapping of value of the **typeName** element to data types requires the value of the **typeName** element to be in the following format.

```
Value = TypeName *1(%x2C BusinessLogicModule)
BusinessLogicModule = FullAssemblyName / LobSystemName
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

**LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#), section [2.2.1.3](#).

**TypeName**: The name of the type that conforms to the Common Language Infrastructure (CLI) as specified in [\[ECMA-335\]](#) and is understood by the .NET Framework. The format is as specified in [\[MS-NRTP\]](#) section 2.2.1.2.

**LobSystemName**: The name of the LobSystem that contains the TypeDescriptor.

The occurrence of the **BusinessLogicModule** element is required by SharePoint Foundation 2010 to yield to a **LobSystemName** element if the represented data type resides in the Business Logic Module associated with the LobSystem that contains the TypeDescriptor. Otherwise, the occurrence of **BusinessLogicModule** is required by SharePoint Foundation 2010 to be a **FullAssemblyName** element. The values for the **TypeName** specified in the following table do not require a **BusinessLogicModule**.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from zero through 65535.
System.UInt32	A number in the range from zero through 4,294,967,295.
System.UInt64	A number in the range from zero through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 0001 through 11:59:59 PM, December 31, 9999, with a resolution of 100 nanoseconds.
System.TimeSpan	A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds.
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.

Value	Description
System.Char	A Unicode character.
System.Byte	A number in the range from zero through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A GUID.
System.Boolean	A bit.
System.Uri	A <b>URL</b> .

<12> [Section 2.2.5.9](#): A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<13> [Section 3.1.4](#): In SharePoint Foundation 2010 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.

<14> [Section 3.1.4](#): In SharePoint Foundation 2010 If The Entity is already Active, Object version is incremented by 2.

<15> [Section 3.1.4](#): A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<16> [Section 3.1.4](#): The Business Logic Module conforms to [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<17> [Section 3.1.4](#): SharePoint Foundation 2010 calls this method only when a deprecated public API is invoked.

<18> [Section 3.1.4](#): In SharePoint Foundation 2010, this operation always returns zero TypeDescriptors.

<19> [Section 3.1.4](#): The behavior would be identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

<20> [Section 3.1.4](#): A set of Business Logic Modules that conform to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<21> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the **LobSystem**.

<22> [Section 3.1.4](#): A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<23> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the **LobSystem**.

<24> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the LobSystem.

<25> [Section 3.1.4](#): SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

<26> [Section 3.1.4:](#) SharePoint Foundation 2010 calls this method only when a deprecated public API is invoked.

<27> [Section 3.1.4.2.2:](#) **associationReferenceStruct** contains the wrong **AssociationGroupId**.

<28> [Section 3.1.4.4.2.1:](#) In SharePoint Foundation 2010, if **model** is not null, the **PartitionId** element of the **Model** must be same as the **PartitionId** of these Entities.

<29> [Section 3.1.4.4.2.2:](#) In SharePoint Foundation 2010, the **PartitionId** elements of these Entities are not an empty GUID.

<30> [Section 3.1.4.13:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

<31> [Section 3.1.4.13:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

<32> [Section 3.1.4.16:](#) A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<33> [Section 3.1.4.16.2.1:](#) A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<34> [Section 3.1.4.18:](#) In SharePoint Foundation 2010, a [security principal \(2\)](#) is authorized to export a MetadataObject, if the same [security principal \(2\)](#) is authorized to modify the same **MetadataObject**.

<35> [Section 3.1.4.19:](#) The Business Logic Module conforms to [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<36> [Section 3.1.4.23:](#) SharePoint Foundation 2010 does not return a fault in this case.

<37> [Section 3.1.4.23:](#) SharePoint Foundation 2010 does not return a fault in this case.

<38> [Section 3.1.4.24:](#) SharePoint Foundation 2010 does not return a fault in this case.

<39> [Section 3.1.4.25:](#) SharePoint Foundation 2010 does not return a fault in this case.

<40> [Section 3.1.4.26:](#) SharePoint Foundation 2010 does not return a fault in this case.

<41> [Section 3.1.4.32:](#) SharePoint Foundation 2010 does not return a fault in this case.

<42> [Section 3.1.4.32:](#) SharePoint Foundation 2010 does not return a fault in this case.

<43> [Section 3.1.4.34:](#) SharePoint Foundation 2010 does not return a fault in this case.

<44> [Section 3.1.4.35:](#) SharePoint Foundation 2010 does not return a fault in this case.

<45> [Section 3.1.4.36:](#) SharePoint Foundation 2010 returns a fault containing the **InvalidOperationException** complex type (section [2.2.4.38](#)) in this case.

<46> [Section 3.1.4.37:](#) SharePoint Foundation 2010 does not return a fault in this case.

<47> [Section 3.1.4.38:](#) SharePoint Foundation 2010 calls this method only when a deprecated public API is invoked.

<48> [Section 3.1.4.39:](#) SharePoint Foundation 2010 does not return a fault in this case.

<49> [Section 3.1.4.40](#): In SharePoint Foundation 2010, this operation always returns zero TypeDescriptors.

<50> [Section 3.1.4.40](#): SharePoint Foundation 2010 does not return a fault in this case.

<51> [Section 3.1.4.40](#): SharePoint Foundation 2010 does not return a fault in this case.

<52> [Section 3.1.4.42](#): SharePoint Foundation 2010 does not return a fault in this case.

<53> [Section 3.1.4.44](#): SharePoint Foundation 2010 does not return a fault in this case.

<54> [Section 3.1.4.44](#): SharePoint Foundation 2010 does not return a fault in this case.

<55> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not return a fault in this case.

<56> [Section 3.1.4.47](#): SharePoint Foundation 2010 does not return a fault in this case.

<57> [Section 3.1.4.49](#): SharePoint Foundation 2010 does not raise an error in this case.

<58> [Section 3.1.4.49](#): SharePoint Foundation 2010 does not raise an error in this case.

<59> [Section 3.1.4.50](#): SharePoint Foundation 2010 returns a fault containing the **BdcExceptionState** complex type (section [2.2.4.25](#)) in this case.

<60> [Section 3.1.4.55](#): SharePoint Foundation 2010 does not return a fault in this case.

<61> [Section 3.1.4.55](#): SharePoint Foundation 2010 does not return a fault in this case.

<62> [Section 3.1.4.57](#): SharePoint Foundation 2010 does not return a fault in this case.

<63> [Section 3.1.4.57](#): SharePoint Foundation 2010 does not return a fault in this case.

<64> [Section 3.1.4.59](#): SharePoint Foundation 2010 does not return a fault in this case.

<65> [Section 3.1.4.59](#): SharePoint Foundation 2010 does not return a fault in this case.

<66> [Section 3.1.4.60](#): The behavior would be identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

<67> [Section 3.1.4.60](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the LobSystem.

<68> [Section 3.1.4.61](#): SharePoint Foundation 2010 (SP1) does respond with **AccessDeniedExceptionState** in this case. However, SharePoint Foundation 2010 instead responds with **ArgumentNullException**.

<69> [Section 3.1.4.62](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the LobSystem.

<70> [Section 3.1.4.63](#): A set of Business Logic Modules that conform to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<71> [Section 3.1.4.63](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the **LobSystem**.

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<73> [Section 3.1.4.63.2.2](#): A set of Business Logic Modules that conform to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<74> [Section 3.1.4.64](#): SharePoint Foundation 2010 (SP1) does respond with **AccessDeniedExceptionState** in this case. However, SharePoint Foundation 2010 instead responds with **BdcExceptionState**.

<75> [Section 3.1.4.65](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the **LobSystem**.

<76> [Section 3.1.4.65](#): SharePoint Foundation 2010 does not return a fault in this case.

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<80> [Section 3.1.4.66.2.2](#): A set of Business Logic Modules that conform to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<81> [Section 3.1.4.67](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the **LobSystem**.

<82> [Section 3.1.4.68](#): SharePoint Foundation 2010 checks the edit rights of the [security principal \(2\)](#) on the LobSystem to determine if the [security principal \(2\)](#) is authorized to read the LobSystem.

<83> [Section 3.1.4.68](#): SharePoint Foundation 2010 does not return a fault in this case.

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<87> [Section 3.1.4.73](#): SharePoint Foundation 2010 does not return a fault in this case.

<88> [Section 3.1.4.73](#): SharePoint Foundation 2010 does not return a fault in this case.

<89> [Section 3.1.4.76](#): SharePoint Foundation 2010 does not return a fault in this case.

<90> [Section 3.1.4.79](#): SharePoint Foundation 2010 does not return a fault in this case.

<91> [Section 3.1.4.79](#): SharePoint Foundation 2010 does not return a fault in this case.

<92> [Section 3.1.4.82.2.2](#): SharePoint Foundation 2010 requires the identifier to be in the following format as expressed in ABNF as specified in [\[RFC5234\]](#):

```
Identifier = TypeName *1(%x2C FullAssemblyName)
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

where LibraryIdentifier, VersionProperty, PublicKeyTokenProperty, and CultureProperty are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

TypeName: The name of the type that conforms to the [\[ECMA-335\]](#) specification and can be understood by the .NET Framework. The format is as specified in [\[MS-NRTP\]](#), Section 2.2.1.2. The specified type implements operations that are described in [\[MSDN-SharePointSDK\]](#).

<93> [Section 3.1.4.84:](#) SharePoint Foundation 2010 ignores the level parameter when retrieving the **TypeDescriptors**.

<94> [Section 3.1.4.84.2.1:](#) In SharePoint Foundation 2010, **level** is ignored. Only **name**, **parameterId** and **partitionId** are used.

<95> [Section 3.1.4.87:](#) In the case where the MethodInstance is an AccessChecker, SharePoint Foundation 2010 does not respond with a fault, instead returns an invalid response, which MUST be ignored by the protocol client.

<96> [Section 3.1.4.87.2.2:](#) SharePoint Foundation 2010 uses XML namespace value "http://tempuri.org/XMLSchema.xsd/" concatenated with the namespace of the Entity that contains the specified MethodInstance.

<97> [Section 3.1.4.87.2.2:](#) SharePoint Foundation 2010 uses XML namespace value "http://schemas.microsoft.com/windows/2007/BusinessDataCatalog/Annotations".

<98> [Section 3.1.4.92.2.2:](#) SharePoint Foundation 2010 this operation always returns false.

<99> [Section 3.1.4.93:](#) SharePoint Foundation 2010 does not return a fault in this case.

<100> [Section 3.1.4.93.2.2:](#) In SharePoint Foundation 2010, if the **MetadataObject** specified in the request is an Entity, this operation will not set **description** while returning created **MetadataObject**.

<101> [Section 3.1.4.94:](#) SharePoint Foundation 2010 returns a fault containing the **BdcExceptionState** complex type (section [2.2.4.25](#)) in the case where **MetadataObject** is **LobSystem**.

<102> [Section 3.1.4.94:](#) SharePoint Foundation 2010 could return a fault containing the **BdcExceptionState** (section [2.2.4.25](#)) instead of **PackageFormatExceptionState** (section [2.2.4.48](#)).

<103> [Section 3.1.4.95:](#) SharePoint Foundation 2010 returns a fault containing the **InvalidOperationException** complex type (section [2.2.4.38](#)) in this case.

<104> [Section 3.1.4.96:](#) In the case when the **packageContents** element is specified as **Model**, **LocalizedNames** or **None**, SharePoint Foundation 2010 does not return a fault.

<105> [Section 3.1.4.96.2.2:](#) SharePoint Foundation 2010 returns a fault containing the **InvalidOperationException** complex type (section [2.2.4.38](#)) in this case.

<106> [Section 3.1.4.97:](#) SharePoint Foundation 2010 returns a fault containing the **BdcExceptionState** (section [2.2.4.25](#)) in this case MetadataObject is LobSystem.

<107> [Section 3.1.4.97:](#) SharePoint Foundation 2010 returns a fault containing the **InvalidOperationException** complex type (section [2.2.4.38](#)) in this case.

<108> [Section 3.1.4.97:](#) SharePoint Foundation 2010 returns a fault containing the **BdcExceptionState** (section [2.2.4.25](#)) in this case MetadataObject is LobSystem.



[<109> Section 3.1.4.108:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<110> Section 3.1.4.110:](#) SharePoint Foundation 2010 does not return a fault in cases where **xml** does not contain either the IdentifierName, IdentifierEntityName and IdentifierEntityNamespace, or the AssociationName, AssociationEntityName and AssociationEntityNamespace.

[<111> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

[<112> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

[<113> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

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[<116> Section 3.1.4.111:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<117> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

[<118> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

[<119> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

[<120> Section 3.1.4.111:](#) SharePoint Foundation 2010 returns a **MetadataException**, serialized as specified in section [2.2.4](#), in this case.

[<121> Section 3.1.4.111:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<122> Section 3.1.4.111:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<123> Section 3.1.4.111:](#) SharePoint Foundation 2010 always returns a fault containing the **BdcExceptionState** complex type (section [2.2.4.25](#)).

[<124> Section 3.1.4.111:](#) In SharePoint Foundation 2010, this operation does not set the **IsDefault** attribute of a **MethodInstance** with the same value for **MethodInstanceType** within the containing **DataClass** to 1.

[<125> Section 3.1.4.111.2.1:](#) SharePoint Foundation 2010 returns a fault containing the **InvalidMetadataObjectExceptionState** complex type (section [2.2.4.38](#)) in cases where the specified **MetadataObject** is the **FilterDescriptor** of type TimeStampFilter.

[<126> Section 3.1.4.112:](#) SharePoint Foundation 2010 calls this method only when a deprecated public API is invoked.

## 9 Change Tracking

This section identifies changes that were made to the [MS-BDCRAWPS] protocol document between the February 2014 and April 2014 releases. 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
<a href="#">2.2.4.1 AccessControlEntryStruct</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">2.2.4.3 AccessDeniedExceptionState</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.2 AddAssociationReferenceToAssociationGroup</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.3 AddEntityToModel</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.19 GenerateProxyAssemblyForLobSystem</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.60 GetLobSystemAllAssembliesBytes</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.62 GetLobSystemByName</a>	Added definition number for 'security principal'.	N	Product behavior note updated.
<a href="#">3.1.4.63 GetLobSystemDataByLobSystem</a>	Added definition number for 'security principal'.	N	Product behavior note updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3.1.4.65 GetLobSystemInstancesForLobSystem</a>	Added definition number for 'security principal'.	N	Product behavior note updated.
<a href="#">3.1.4.66 GetLobSystemProxyAssemblyBytesByLobSystemId</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.67 GetLobSystemsLikeName</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.68 GetLobSystemsReferencedByEntitiesAssociatedWithModel</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.89 ImportPackage</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.90 ImportPackageWithProgress</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.95 MetadataObjectReadXml</a>	Added definition number for 'security principal'.	N	Content updated.
<a href="#">3.1.4.104 SetAccessControlEntries</a>	Added definition number for 'security principal'.	N	Content updated.

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